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OPNAVINST 3722.35 OP-554E **2 1 SEP 1988**

OPNAV INSTRUCTION 3722.35

From: Chief of Naval Operations

Subj: BASELINE PLANNING CRITERIA FOR NAVAL AIR TRAFFIC CONTROL FACILITY (ATCF) RESOURCES CRITERIA

Encl: (1) Baseline Planning Criteria

1. Purpose. To provide guidance in minimum baseline planning of naval ATC facilities by proper utility of resources available.

2. <u>Background</u>. Development of a classification scheme which describes the various types of existing Navy and Marine Corps ATCFs has been a goal of ATC system planners. Enclosure (1) provides a mechanism for defining ATCF resources logically and on an equitable basis that has been unsuccessful in the past.

3. Action. Commanding officers/officers in charge of the air traffic control facilities will use enclosure (1) as a basic source reference in minimum baseline planning.

R. P. ILG By direction

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BASELINE PLANNING CRITERIA FOR NAVAL AIR TRAFFIC CONTROL FACILITY (ATCF) RESOURCES (ASHORE)

1. ATCF Classification Standard. This document contains Baseline Planning Criteria designed to aid in identifying minimum Air Traffic Control (ATC) resource requirements for Naval ATCFs. It is not intended to replace existing directives that identify or regulate the outfitting of naval air activities. Rather, it concentrates on those specific resources necessary to provide ATC services while complementing other support equipment necessary to sustain activity air operations. The terms, Baseline Planning Criteria and Standards, as they appear in this document, should be viewed as interchangeable and not construed as a limitation to activity resource requirements. However, in those instances where deviations from baseline criteria resource allocations are required, those activities that are required to deviate must announce such deviations in a form such as an Operational Capability Improvement Request (OCIR) or similar media providing for command endorsements. Addressed within the standard are the needs for ATCF classification, the concepts used for standard development, descriptions of the resulting five ATCFs, and definitions of the resulting five ATCF classes.

2. <u>Need For Classification</u>. Development of a classification scheme which succinctly describes the various types of existing Navy and Marine Corps ATCFs has long been a goal of Navy ATC system planners. Such a scheme would provide a mechanism for defining ATCF resources logically and on an equitable basis systemwide. Previous attempts have been unsuccessful, usually resulting in too large a number of unique classes to be of planning value.

3. Approach To Standard Development

a. By definition, classification is the process of systematically arranging things into groups on the basis of common traits. The underlying principle for establishing a classification scheme is that each resultant class must encompass common elements. As Navy ATC is one of a large number of closely interrelated elements collectively supporting the Naval Aviation mission, the classification scheme must identify all elements that have a bearing on the performance of ATC and must analyze each element for commonality across the spectrum of ATCFs. Six major and eighteen minor categories were identified and analyzed for appropriateness. Major categories included air stations, airfield facilities, base loading, operating environment, ATC services, and flight activities. This process yielded a single common element, the <u>ATC services</u> provided; each other element has an impact on ATCF standardization objectives at a lesser level.

b. The ATCF classification scheme, by segregating ATC services into groups, established five major classes:

(1) Class I - Flight Planning Facility.
 (2) Class II - Control Tower Facility.
 (3) Class III - Control Tower with GCA Facility.
 (4) Class IV - Approach Control Facility.
 (5) Class V - Joint Control Facility.

c. A second screening process to determine if further distinction within a class was possible or practical identified significant differences in the following three classes:

(1) Class III ATCFs can be further identified by GCA pattern control authority; i.e., with or without.

(2) Class IV ATCFs can be further identified by the method used to provide Terminal Area services; i.e., manual or radar assisted.

(3) Class V ATCFs can be further identified by the type of Range Control services provided; i.e., Research, Development, Test and Evaluation (RDT&E) or Training.

d. Results of these processes are shown below.

	ATC SERVICES OFFERED ATCF CLASS AND CATEGORY	FLIGHT ASSISTANCE	AIRPORT TRAFFIC CONTROL	LOW APPROACH AND LANDIKG	TERMINAL AREA CONTROL	RANGE CONTROL (AIR)
<u>'</u>	FLIGHT PLANNING FACILITY	•				
11	CONTROL TOWER FACILITY	•	•			
ili A B	CONTROL TOWER W/GCA FACILITY GCA – FINAL CONTROL GCA – PATTERN CONTROL	•	•	•		
IV A B	APPROACH CONTROL FACILITY Manual Radar	•	•	0	•	
V A B	JOINT CONTROL FACILITY (JCF) RDT&E TRAINING	•	•	0	0	•

FIGURE 1 ATCF CLASSES, CATEGORIES AND SERVICES

- REQUIRED

O = OPTIONAL

4. <u>ATC Service Descriptions</u>. There are five distinct ATC Services provided singly or in combination at every AFTC. These are Flight Assistance Service, Airport Traffic Control Service, Low Approach and Landing Service, Terminal Area Service, and Range Control (Air) Service.

a. <u>Flight Assistance Service</u>. The planning of a flight is the first element of an air operation. Safety of flight is dependent upon thorough flight planning covering itinerary, times, and weather. The Flight Assistance Service interfaces the flight crew with the air traffic control system and encompasses work, space, personnel, equipment, and information related to:

- (1) Planning the flight.
- (2) Introducing the plan into the ATC system.
- (3) Providing flight safeguard.

b. <u>Airport Traffic Control Service</u>. Airport Traffic Control consists of those services provided to aircraft operating within the Airport Traffic Area or on the airport surface. These services are somewhat unique as they are the only services that are location sensitive; using today's technology, they require an elevated structure and visual contact. These services include:

(1) Issuing control instructions to provide sequencing and assure the orderly and expeditious movement of aircraft departing from, landing at, or approaching the airport for landing.

(2) Furnishing information to pilots concerning clearances to operate aircraft, weather and field conditions, and pertinent operating and procedural instructions.

(3) Relaying aircraft operation and control messages between pilots and other air traffic facilities.

(4) Notifying crash and rescue agencies during actual or potential accidents on or in the vicinity of the airport.

c. Low Approach And Landing Service. This Service permits aircraft to be recovered when weather ceilings and visibility are less than that prescribed for Instrument Approach Procedures (IAP) predicated on non-precision air navigational aids. Its services encompass:

(1) Issuing control instructions to provide separation to aircraft approaching for landing under marginal weather conditions.

(2) Providing control instructions and information to align aircraft in azimuth and altitude so an optimum touchdown point on the landing surface may be reached.

d. <u>Terminal Area Control Service</u>. The Terminal Area Control Service provides separation and control of aircraft operating in the relatively dense air traffic environment surrounding major airports. Its tasks, which are exclusive of those performed as part of the Airport Traffic Control and Low Approach and Landing Services, encompass:

(1) Separation and control of departing and arriving aircraft operating under Instrument Flight Rules.

(2) Separation and control of transiting aircraft operating under Instrument Flight Rules.

(3) Separation and control of aircraft operating under Visual Flight Rules that want the added margin of safety afforded by such control.

e. <u>Range Control (Air) Service</u>. The Range Control (Air) Service combines both ATC in the classic sense, i.e., separating aircraft from each other or obstructions, and the provisions of combat direction and/or range surveillance. This mission-oriented Service encompasses:

- (1) Mission aircraft flight-following.
- (2) Mission aircraft direction.
- (3) National Airspace System interface.

5. ATCF Class Definitions

a. <u>Class I - Flight Planning Facility</u>. This is an ATCF that is organized, manned, and equipped to provide Flight Assistance services to aircrews, including flight planning and flight safeguard services.

b. <u>Class II - Control Tower</u>. This ATCF is organized, manned, and equipped to provide Airport Traffic Control services, including air traffic sequencing to aircraft airborne within the airport traffic area; authority for aircraft to land or take off from runways, sea lanes, or heliports; and control of aircraft and vehicles on the surface within the movement area to ensure safe, orderly, and expeditious aircraft movement. Unless modified by Letter of Agreement, the Air Traffic Control Clearance Authority vested in the tower is limited to that permitted for operation in accordance with Visual Flight Rules (VFR); however, Instrument Flight Rules (IFR) or Special VFR Air Traffic Control clearances, originated by other facilities having such authority, may be relayed by the tower. Flight Assistance services also are provided.

c. <u>Class IIIA/IIIB - Control Tower/Ground Controlled Approach (GCA)</u> <u>Facility</u>. This ATCF is organized, manned, and equipped to provide Airport Traffic Control and Low Approach and Landing services, including air traffic sequencing to aircraft airborne within the airport traffic area; authority for aircraft to land or take off from runways, sea lanes, or heliports; control of

Enclosure (1)

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aircraft and vehicles on the surface within the movement area; and control instructions to aircraft during the Intermediate and Final Approach segments (Class IIIA) to ensure safe, orderly, and expeditious aircraft movement. Unless modified by Letter of Agreement, the Air Traffic Control Clearance Authority vested in the tower is limited to that permitted for operation in accordance with Visual Flight Rules (VFR); however, Instrument Flight Rules (IFR) or Special VFR Air Traffic Control clearances, originated by other facilities having such authority, may be relayed or issued. In like manner, GCA control authority may be extended beyond the Intermediate fix when authorized by Letter of Agreement (Class IIIB). Flight Assistance services also are provided.

d. Class IVA/IVB - Approach Control Facility. This ATCF is organized, manned, and equipped to provide Airport Traffic Control and Terminal Area services, including separation and control to arriving, departing, and, occasionally, enroute aircraft operating in accordance with Instrument Flight Rules (IFR) and, when appropriate, Visual Flight Rules (VFR) within airspace assigned for the purpose by Letter of Agreement, to ensure safe, orderly, and expeditious aircraft movement. Services to the primary airport include air traffic sequencing to airborne aircraft within the airport traffic area: authority for aircraft to land or take off from runways, sea lanes, or heliports; and control of aircraft and vehicles on the surface within the movement These facilities are authorized to originate IFR and Special VFR Air area. Traffic Control Clearances for aircraft landing at or departing from airports within their assigned area of responsibility or transiting airspace under their control jurisdiction, including instrument approach and departure clearances. Class IVB facilities are radar-capable and employ radar procedures, whereas Class IVA facilities do not. Either also may provide Low Approach and Landing services. Flight Assistance services also are provided.

e. <u>Class VA/VB - Joint Control Facility</u>. This is a combined ATCF and Range Operations Center (ROC) that is organized, manned, and equipped to provide Class II, IIIA/B, or IVA/B ATC services and Range Control services. Facilities located at a Research, Development, Test and Evaluation (RDT&E) activity, are classified as VA; those at training activities, as VB. In both cases, ROC services may include aircraft control, separation, positioning, tracking, and target scoring. ROC operational jurisdiction is typically limited to Special Use Airspace (Restricted Areas, Military Operating Areas (MOA), or ATC Assigned Airspace (ATCAA)).

6. Operating Position Quantity Standard

a. This standard supports determination of the number of Operating Positions needed to provide Air Traffic Control services at all ATCFs, regardless of class. It is recognized that currently some installations do not conform to the provisions of this standard. It is not intended that facility modifications be accomplished solely for the purpose of conformance. Rather, the standard should be used as the definitive basis for determining requirements

when establishing new ATCFs or planning modifications at existing facilities where the magnitude of the work justifies realignment expenditures.

b. This standard addresses the need for Operating Position standardization, explains the functions performed by each Operating Position, and establishes the criteria to be used for determining types and quantities of Operating Positions.

7. Need For Operating Position Standardization

a. Operating Position types and quantity have a significant impact on the resources necessary to provide ATC services. Observations at a large percentage of existing ATCFs show considerable variation among facilities with similar operational characteristics. In a number of instances, it can be shown that requirements determination has been based upon a local perception of "what is best" in the absence of definitive guidance from higher authority. This practice has resulted in successive Operating Position modifications and relocations as changing personnel reevaluate requirements based upon a different perception of "best."

b. Baseline criteria, which satisfy requirements at the local operational level yet meet system standardization goals, will increase standardization, shorten on-the-job training, and reduce costs. Consistent with a work-resource philosophy, such criteria are based on services provided and functions performed.

8. Operating Position Description. Work performed in each ATC Service is grouped to closely parallel pilot requirements to operate safely throughout flight. For example, before departure, a pilot must safely taxi from the parking area to the takeoff area, therefore the ATCF function is to provide assistance so that potentially hazardous situations can be avoided. Because control of taxiing aircraft is repetitious, associated tasks can be grouped, in today's environment, at the Ground Control position. Similar patterns of work groupings occur throughout each ATC Service. Five Services that exist in the Terminal ATC environment are Flight Assistance, Airport Traffic Control, Low Approach and Landing, Terminal Area Control, and Range Control (Air). Each is described below in terms of the work associated with its Operating Positions.

a. <u>Flight Assistance Service</u>. Flight Dispatcher is the only position type included in this Service. The associated work covers introduction of flight plans into the ATC system and flight safeguard. Tasks performed include receipt, posting, and forwarding of appropriate flight plan information and maintenance of a continuous record of all flights to ensure prompt initiation of overdue or missing aircraft procedures. At most air stations, non-ATC related tasks are assigned and are included within the Flight Assistance Service. These include such things as transporting transient aircrews, processing flight ration requests, or spot checking the airport movement area for

hazards. Although these tasks exist and must be performed, their variety and unstructured nature excludes them from any defined relationship within the Service.

b. <u>Airport Traffic Control Service</u>. Work is distributed across the following five position types: Flight Data (Tower), Clearance Delivery, Ground Control, Local Control, and Coordinator/Supervisor (Tower).

(1) Flight data (tower) position work includes receiving and recording of flight plan messages, IFR ATC clearances, airport and ATC equipment condition messages, and weather messages; forwarding of such information; and maintaining air operations statistics.

(2) Clearance delivery position work is the action required in forwarding IFR ATC departure clearances to pilots.

(3) Ground control position work involves both aircraft and vehicles and includes providing advice, information, and instructions to taxiing aircraft and vehicles on the airport movement area (exclusive of active landing and departure areas); coordinating such movements as required; and alerting crash/rescue agencies when necessary.

(4) Local control position work includes providing information, advice, instructions, and clearances to separate and sequence airborne aircraft and to direct aircraft and vehicles operating on active landing and departure areas as well as operating field and approach lighting systems.

(5) Coordinator/supervisor (tower) work ensures the safety and operational efficiency of Airport Traffic Control services during a watch period. This includes managing the work force; ensuring work force compliance with operational rules, procedures, and standards; and accepting ATC equipment for operational use.

c. Low Approach and Landing Service. Work is distributed across the following five position types: Flight Data (GCA), Final Control (PAR), Final Control (ACLS), Arrival Control (GCA), and Coordinator/Supervisor (GCA).

(1) Flight data (GCA) position work includes receipt, recording, and forwarding of information on aircraft movement, weather, and equipment status; coordination of aircraft movements between Services and other ATCFs; and assignment of aircraft to the Final Control work force.

(2) Final control (PAR) position work includes issuing instructions, advice, information, and clearances to pilots to maintain separation between aircraft and obstructions and issuing instructions, advice, information, and clearances to pilots to arrive at a point where visual approach to a landing may be accomplished.

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(3) Final control (ACLS) position work includes operating the ACLS console for Modes I, IA, and II automatic approaches, issuing instructions, information, and clearances to pilots to maintain separation between aircraft and obstructions; and issuing instructions, advice, information, and clearances to pilots during Mode III non-automatic approaches so as to arrive at a point where visual approach to a landing may be accomplished.

(4) Arrival control (GCA) position work includes issuing instructions, advice, information, and clearances to pilots to maintain separation between aircraft and obstructions and issuing instructions, advice, information, and clearances to pilots to arrive at a final approach descent point.

(5) Coordinator/supervisor (GCA) position work is that necessary to ensure the safety and operational efficiency of Low Approach and Landing services during a watch period. This includes managing the work force; ensuring work force compliance with operational rules, procedures, and standards; and accepting ATC equipment for operational use.

d. <u>Terminal Area Control Service</u>. This Service may be provided by either of two methods; i.e., manual (non-radar) or radar assisted. In both cases, position work is identical and distributed across the following four position types: Flight Data (non-radar/radar), Approach Control (non-radar/ radar), Departure Control (non-radar/radar), and Coordinator/Supervisor (non-radar/radar).

(1) Flight data (non-radar/radar) work includes receiving and recording flight plan and ATC Clearance messages as well as information on aircraft movement, weather, and equipment status; forwarding of such information; and maintaining air operations statistics.

(2) Approach control (non-radar/radar) work includes issuing instructions, advice, information, and clearances to pilots to maintain separation between aircraft and obstructions; issuing instructions, advice, information, and clearances to pilots to arrive at a point in space where an instrument or visual approach can commence; coordinating aircraft movements among the ATC Services or between the Services and other ATCFs; formulating, issuing, or forwarding for issue Special Visual Flight Rule arrival or overflight clearances; and formulating and forwarding instrument approach clearances.

(3) Departure control (non-radar/radar) work includes issuing instructions, advice, and clearances to pilots to maintain separation between aircraft and obstructions; issuing instructions, advice, information, and clearances to pilots to arrive at a point in space where transition to enroute flight may be commenced; coordinating aircraft movements among the ATC Services or between the Services and other ATCFs; formulating, issuing, or forwarding for issue Special Visual Flight Rule Departure Clearances; and formulating and forwarding Instrument Flight Rule departure (climbout) instructions.

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(4) Coordinator/supervisor (non-radar/radar) work consists of those actions necessary to ensure the safety and operational efficiency of Terminal Area Control services during a watch period. These actions include managing the work force; ensuring work force compliance with operational rules, procedures, and standards; and accepting ATC equipment for operational use.

e. <u>Range Control (Air) Service</u>. Position work is distributed across the following five position types: Flight Data (Air Range), Mission Control (Air Range), Area Control (Air Range), Coordinator/Supervisor (Air Range), and Project Control.

(1) Flight data (air range) work includes receiving and recording of aircraft movement messages, ATC clearances, weather, and equipment status information; forwarding of such information; and maintaining operational statistics.

(2) Mission control (air range) work includes issuing instructions, advice, and information to position aircraft at or relative to a predetermined, fixed point in space; issuing instructions, advice, and information to position aircraft relative to a moving point in space; issuing instructions, advice, and information to pilots to maintain separation between aircraft and obstructions; and coordinating aircraft movements among the ATC Services or between the Services and other ATCFs.

(3) Area Control (air range) work includes issuing instructions, advice, and information to pilots to preclude egress boundary v'olations (spill-out); observing airspace boundaries to identify potential ingress boundary violations (spill-in); and coordinating aircraft movements among the ATC Services and between the Services and other ATCFs.

(4) Coordinator/supervisor (air range) work is that necessary to ensure the safety and operational efficiency of Range Control (Air) services during a watch period. This work includes managing the work force; ensuring work force compliance with operational rules, procedures, and standards; and accepting ATC equipment for operational use.

(5) Project control is a position that essentially functions as a specialized Local Control position at selected ATCFs. Work includes providing information, advice, instructions, and clearances to separate and sequence airborne project aircraft from other project aircraft and/or other airborne traffic landing at or departing from the airport.

9. Approach to Standard Development

a. The requirement for different Operating Positions results from the need to perform different groups of ATC functions efficiently and in order. Efficient handling of aircraft by an ATCF is achieved by the involved Operating Positions accomplishing assigned work functions in a time-ordered sequence.

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ATC function sequences are directly aligned with a mandatory series of flight-associated pilot events. Efficiency is enhanced by reducing or eliminating delay in processing aircraft within or between Operating Positions. The optimum function sequence for any Operating Position is, therefore, the one in which processing delay is minimal.

b. Determination of Operating Position quantities is based on analysis of the following interrelated elements:

(1) Function occurrence rate (or the rate at which ATC functions occur) measures the number of times key sets of functions occur per unit time.

(2) Function space (or the amount of air or ground space under the control jurisdiction of an Operating Position), as used in this consideration, describes either space of finite dimensions, such as GCA final approach course length and the like or generic space, such as Approach Control sectors, air port movement area, and the like.

(3) Work function accomplishment rate (or the rate at which a trained individual can safely and efficiently accomplish position work) is a measure of the ability of an operator to accomplish position related functions per unit time.

c. To avoid imposing an extensive data collection burden on facilities, constant value rates, based on experience, were used in developing this standard.

10. Operating Position Requirements

a. <u>Flight Assistance Service</u>. In other operating positions, an increase in the Function Occurrence Rate indicates the need to add both equipment and personnel positions. For the Flight Dispatcher position, only persons need be added because addition of equipment does not alter the rate at which flight plans can be forwarded. All ATCFs shall therefore contain one Flight Dispatcher position.

b. <u>Airport Traffic Control Service</u>. The Function Occurrence Rate for determining Airport Traffic Control Service positions is an Equivalent VFR Flow Rate (EVFR) of two operations per minute per person. EVFR normalizes controller IFR functions to the same baseline as controller VFR functions. In addition, the number and type of Operational Positions is affected by Function Space; i.e., the airport configuration (see Figure 2). EVFR is obtained from line 7, Worksheet C, as shown in Figure 3.

(1) In the interest of standardization and to accommodate a rapid operational expansion contingency, e.g., a major increase in traffic volume occasioned by a sudden increase in base loading, all facilities regardless of class shall include one Flight Data position, one Clearance Delivery position, one Ground Control position, and one Local Control position.

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TYPE 0 NO RUNWAY	
TYPE 1 ONE RUM VAY	
$\overset{\mathrm{type}\ 2}{\mathrm{crosssing}\ \mathrm{runways}} \xrightarrow$	
TYPE 3 LINKED OFFSET CROSSING RUNWAYS	
TYPE 4 PARALLEL RUNWAYS	
TYPE S PARALLEL WITH CROSSING RUNWAYS \neq \checkmark \checkmark $-\perp$ \neq \checkmark	
TYPE 6 TWO SETS OF PARALLEL RUNWAYS	

FIGURE 2 USN/USMC RUNWAY CONFIGURATIONS

(2) When the airport configuration is Type 4, 5, or 6, and tower placement does not permit simultaneous observation of taxiway traffic to or from both parallel runways, add one Ground Control position.

(3) When the airport configuration is Type 4, 5, or 6, and tower placement does not permit simultaneous observation of the traffic pattern to both parallel runways from one position, add one Local Control position.

(4) When the actual or projected Equivalent VFR Flow Rate exceeds 105 operations per hour, add one Supervisor position.

c. Low Approach and Landing Service. The number of Final Control (PAR) positions is limited by the length of the final approach course as influenced by aircraft separation standards. Currently, available equipment limits the final approach course to approximately 12 miles. Application of the minimum IFR separation standard of three miles between aircraft means that no more than four aircraft can be on final to the same runway simultaneously. No distinction is made between IFR and VFR aircraft because, in practice, minimum IFR separation is typically applied to all aircraft making GCA approaches.

(1) Regardless of class, all facilities providing Low Approach and Landing services shall include not less than two Final Control (PAR) positions for each runway simultaneously served and one Flight Data (GCA) position.

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FIGURE 3 EVFR CALCULATION WORKSHEETS

τοτ	AL OPERAT				
MULTI - SHIFT FACILITIES	USN/USM				
I ENTER TOTAL ANNUAL			-		
OPERATIONS	r	ENTER TOTAL AN		<u>-</u>	
2 MULTIPLY LINE 1 BY 4.1	-	OPERATIONS MULTIPLY LINE			
3 MULTIPLY LINE 1 BY 2.4		L			
MULTI - SHIFT FACILITIES		0113			
1 ENTER ANNUAL IFR OPERATIONS		SINGLE SHIFT FACI	LITTES		
2 MULTIPLY LINE 1 BY 4.1	1	ENTER ANNUAL	IFR OPER	ATIONS	
3 MULTIPLY LINE 1 BY 2.4	2	MULTIPLY LINE	1 BY 6.83	<u> </u>	
• STATE IN THOUSANDS TO ONE DECIMA	L, E.G., 180 VORKSHEET				
τοται	L OPERATI USNR	ONS*			
MULTI - SHIPT FACILITIES	-				
1 ENTER TOTAL ANNUAL OPERATIONS		NGLE SHIFT FACIL	TIES		
2 MULTIPLY LINE 1 BY 6.8	1	ENTER TOTAL AN OPERATIONS	INUAL		
3 MULTIPLY LINE 1 BY 4.0 B	2	MULTIPLY LINE	BY 10.8		
IF MULTI - SHIPT PACILITIES	R OPERAT	TONS			
1 ENTER ANNUAL IFR OPERATIONS] s	NGLE SHIFT FAC	LITTES		
2 MULTIPLY LINE 1 BY 6.8	16	ENTER ANNUAL		ATIONS	
3 MULTIPLY LINE 1 BY 4.0		MULTIPLY LINE	BY 10.86		
• STATE IN THOUSANDS TO ONE DECIN	MAL, E.G., 1	80.494 = 180.5			
W	ORKSHEET	B 			
ENTER DAILY AIRPORT TRAFFIC	CONTROL				
1 SERVICE (TOWER) HOURS OF OPE ENTER STANDARD SHIFT DURATIO	RATION		DAY		
TABLE 1			DAY	EVE	MID
3 VORKSHEET A OR B (AS APPROPRIA ENTER IFR OPERATIONS VALUE FRO	TE)		^ C		
4 WORKSHEET A OR B (AS APPROP			Ľ	Ľ	
5 MULTIPLY LINE 4 BY 125	(n) (0) T				
6 EQUIVALENT VFR OPERATIONS	EKMINE				
7 DIVIDE LINE 6 BY LINE 2 TO 7 DETERMINE EVFR RATE PER MON	ин				<u></u>
· · · · · · · · · · · · · · · · · · ·					_
W	ORKSHEET	с			

STANDARD SHIFT

DAILY OPERATING	STANDA	RD SHIFT DUR	RATION
HOURS	DAY	EVE	MID
1	1		
2	2		
3	3		
4	4		
5	5		
6	6		
7	7		
8	8		
9	9		
10	10		
11	6	5	
12	7	5	
13	8	5	
14	8	6	
15	8	7	
16	8	8	
17	9	8	
18	9	9	
19	10	9	
20	10	10	
21	8	8	5
22	8	8	6
23	8	8	7
24	8	8	8

TABLE 1

Enclosure (1)

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(2) When actual or projected operations rate per shift for each runway simultaneously served is greater than 109, add one PAR/ASR Final Control position.

(3) When actual or projected operations rate per shift for each runway simultaneously served is greater than 171, add one Final Control (PAR) position.

(4) When an ACLS capability is required, add two Final Control (ACLS) positions.

(5) In addition, all Class IIIB and IVB facilities and those Class IVA facilities providing Low Approach and Landing services shall contain one Arrival Control position for each runway simultaneously served.

(6) When the sum of all Low Approach and Landing Service positions equals or exceeds five, add one Coordinator/ Supervisor (GCA) position.

d. <u>Terminal Area Control Service</u>. Parameters used to determine Terminal Area Control Service positions are aircraft flow rate per hour per sector and the number of airspace sectors established by the facility. Sectors are determined by the number and location of satellite airports and the runway configuration at the primary airport. Sector quantity and arrangement are determined at the local level because only the local ATCF is sufficiently knowledgeable about prevailing ATC complexities.

(1) All Class IVA or IVB ATCFs shall include one Flight Data (non-radar/radar) position.

(2) Each Departure Control Sector shall contain one Departure Control (non-radar/radar) position.

(3) When the sector departure traffic flow rate exceeds 16 but is less than 25 aircraft per hour, add one Assistant Departure Control (non-radar/radar) position.

(4) When the sector departure traffic flow rate equals or exceeds 25 aircraft per hour, add one Departure Control (non-radar/radar) position.

(5) Each Approach Control sector shall contain one Approach Control (non-radar/radar) position.

(6) When the sector approach traffic flow rate exceeds 15 but is less than 20 aircraft per hour, add one Assistant Approach Control (non-radar/radar) position.

(7) When the approach traffic sector flow rate equals or exceeds 20 aircraft per hour, add one Approach Control (non-radar/radar) position.

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(8) When the sum of Departure, Approach, Arrival and Final Control positions is five or more, add one Supervisor/ Coordinator (non-radar/radar) position.

e. Range Control (Air) Service

(1) The unique and relatively unstructured nature of the missions performed by ATCFs that incorporate Range Control (Air) services precludes development of definitive Operating Position quantity criteria. An individual staff study of requirements should be conducted at each facility where major changes are requested. Requesting agencies shall provide detailed background and a rationale to justify all required positions.

(2) Normally, each facility should contain one Flight Data (Air Range), one Coordinator/Supervisor (Air Range), and one Project Control position. Mission Control (Air Range) and Area Control (Air Range) position quantities will generally be determined on the basis of airspace sectoring; however, sector traffic flow rates may be considerably less than those prescribed for the Terminal Area Control Service due to the special nature of the facility mission.

11. Operating Position Equipment Standard

a. The Operating Position Equipment Standard supports determination of the type and quantity of equipment required to provide Air Traffic Control services, regardless of class. The standard is designed to assist equipment planners by providing a set of Operating Position generic equipment requirements for each class and the mechanism for translating generic requirements to nomenclatured equipment. It is recognized that some installations do not currently conform to the provisions of this standard. It is not intended that modifications be accomplished solely for the purpose of conformity. Rather, the standard should be used as the definitive basis for determining requirements for new ATCFs or when planning modifications at existing facilities where the magnitude of the work justifies the cost of incorporating the provisions of the standard.

b. The standard addresses the need for Operating Position equipment standardization, explains the basis for determining position equipment requirements, and presents sets of generic equipment standards tailored to ATCF class.

12. <u>Need for Equipment Standardization</u>

a. Civil Air Traffic Control has evolved largely as a result of advances in electronic and aircraft design technology. As new technology permitted increased aircraft capabilities, newer, more capable equipment has been incorporated into ATCFs. Parallel advances continue today as automation enters the aviation environment. Navy ATC, as part of the common National Airspace

Enclosure (1)

System, has followed the civil lead in incorporating new technology but, historically, has lagged behind the FAA by several years.

b. In the past, Navy planners have been able to accommodate changing equipment needs on a case-by-case basis without a compelling need for documented equipment standards; i.e., requirements could be satisfied through redundancy. For example, if a communications capability was required, the planner could provide identical systems at reasonable cost to all positions requiring the capability. However, as equipment costs have increased and as automated equipment enters the Navy inventory, this practice ceases to be economically viable; a more definitive planning basis is required.

13. Approach to Standard Development

a. ATC equipment is an extension of the human faculties -- memory, sight, hearing, and speech. Equipment helps the controller to collect, sort, and judge facts; to formulate decisions based on these facts; and to communicate decisions in various forms to pilots and other controllers. All ATC equipment is designed to assist the controller in accomplishing the work associated with an ATC Service and its Operating Positions. Equipment provides information, records information, aids in processing information, and allows information to be communicated.

b. Equipment improvement planning, whether for a new or upgraded facility capability, must be based upon operational requirements. In the case of ATC, these requirements correspond to the equipment necessary at each Operating Position that allows controllers to accomplish position work. All other equipment necessary to achieve a position capability is derived from this source. Thus, a position communications requirement would indicate a need for a transmitter, receiver, antenna, and a recording capability as well as other equipment required to establish communications at the position.

c. During the requirements definition stage, planning broadly defines the functions a piece of equipment is expected to satisfy in operational terms; technical requirements, such as frequency, power out, and the like, are based on operational requirements. A specific piece of equipment is then matched to both. Within this context, the ATCF equipment planner must answer three fundamental questions:

(1) Based on <u>operational</u> parameters, what type of equipment is necessary to satisfy ATC service requirements at this ATCF?

(2) Based on <u>technical</u> parameters, what equipment will satisfy the operational parameters?

(3) How many pieces of equipment must be provided?

The first question is answered by analyzing the work necessary to provide various services. The response to the second question depends on resolution of

Enclosure (1)

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the first because operational parameters drive technical parameters. The third requires two inputs -- the amount of equipment required to conduct daily operations and the quantity of spares necessary to support that equipment.

d. A "thread diagram" technique is used to determine Operating Position equipment requirements. This approach analyzes and documents the work of each position in terms of functions performed, interfaces required, and other factors that influence its accomplishment. Each major ATC evolution is plotted against all involved Operating Positions, and a determination is made concerning the equipment required by a controller to satisfy the evolution. At this stage, controller equipment is expressed in generic terms to avoid limiting results to current equipment inventories. As equipment does not alter the functions to be performed, the interfaces, and the factors influencing performance, the resulting standards remain valid regardless of equipment changes. Five generic categories of equipment identified in this manner are Communications, Aircraft Control Displays, Information Displays, Documentation Equipment, and Navigation Equipment. Each category contains additional subcategories identified by its operational purpose and function.

(1) Communications. Communications are employed by virtually all positions. In the standards, the Communications category is presented according to the following operational purposes:

(a) Aircraft control communications, which are used by controllers to forward to and receive from pilots operational information concerning aircraft movement and safety and which include issuing ATC clearances, providing advice, issuing commands, relaying weather information, etc.

(b) Vehicle control communications, which are used by controllers to forward and receive operational information concerning vehicle movement on the aircraft operating area and which include issuing clearances to enter the area or cross a runway, determining vehicle position or intentions, etc.

(c) Inter-facility coordination communications, which are used by controllers to forward and receive operational information between ATCFs concerning aircraft movement and safety and which include relaying ATC clearances, executing handoffs, relaying flight plan information, and the like.

(d) Intra-facility coordination communications, which are used by controllers to forward and receive operational and administrative information between operating positions within the ATCF and which include aircraft movement and safety messages (e.g., aircraft departure release authorizations, handoffs between positions) and administrative messages (e.g., aircraft parking, crew berthing and messing).

(2) Aircraft control displays. This category includes the displays used to locate and/or identify aircraft and those used to determine an

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aircraft's position relative to a predetermined point-in-space to provide precise aircraft guidance. These are expressed in the standards by the following operational purposes and functions:

- (a) Aircraft Location.
- (b) Aircraft Identification.
- (c) Aircraft Positioning.

(3) Information sources. This category includes the displays used to determine environmental information for relay to pilots. These are expressed in the standards by the following operational purposes and functions:

- (a) Barometric Pressure Displays.
- (b) Time Displays.
- (c) Wind Speed and Direction Displays.
- (d) Weather Displays.

(4) Documentation equipment. This category presently is limited to equipment necessary to record and display flight progress information. These are expressed in the standards by the following operational purposes and functions:

(a) Flight Progress Record.(b) Flight Progress Display.

(5) Navigation equipment. A generic standard for navigation equipment is not provided as aircraft navigation requirements are determined on a different basis.

14. Application of the Standard

a. Operating Position Equipment Standards are presented as a set of generic equipment requirements for each ATCF class (see Attachments A through G). All generic requirements sets are identical in terms of the equipment categories included; however, each is tailored to reflect the position work of the particular ATCF class.

b. In practice, the generic equipment required at each Operating Position is extracted from the appropriate requirements set. For each generic requirement, the equipment or equipment system that best fulfills the operational needs of the position is selected, and each generic equipment category is considered individually. The sum of these requirements is then reviewed to determine the most efficient and economical combination.

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	REMARKS	Master ATCOM Facilities only											
	APPLICATION	Ship-to-Shore									•		
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Š	YAAMIAA	×								 			
	OPERATING POSITION	Flight Dispatcher											

ATCF COMMUNICATIONS STANDARD CLASS I

PUNPOSE: AIRCRAFT CONTROL

Enclosure (1) ATTACHMENT A

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		REMARKS	No Requirement				-				
ATCF COMMUNICATIÓNS STANDARD CLASS I		APPLICATION	Ÿ								
		RECEIVE									
NA		TIMENAAT								 	
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LCF	FREQUENCY	AHE (EW)					 			 	
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		(MA) PHU		 		ļ				 	
		EWERGENCY								 	
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ROL		YAAMIA9						 			
PURPOSEI VEHICLE CONTROL		OPERATING POSITION	Flight Dispatcher								

		CONTROL TOWERS WITHIN ATCF AMSPACE	CONTROL TOWERS WITHIN SECTOR AIRSPACE	AMPOATS AT WWCH LOCAL FLIGHTS MAY AMPOATS AT WWCH LOCAL FLIGHTS MAY	APPROACH CONTROL FACMITIES ADJOINING ATCF AMSPACE	APPROACH CONTROL FACHITHES AD JONNING SECTOR ANSPACE	ARTCCs SERVING ATCF AMSPACE	ARTCC: SERVING SECTOR AMSPACE	ROC, WITH WHICH ATCF HAS HANDOFF RESPONSIONTIKS	ROCI WITH WHICH SECTOR HAS HANDOFF RESPONSIONLITHES	FACEFACE WITH WHICH ATCF HAS HANDOFF RESPONSIONITES	FACSFACE WITH WINCH SECTOR MAS HAMBOFF RESPONSIBILITIES	FLIGHT SEAVECE STATION SERVING PRIMARY AIRPORT	FLIGHT SERVICE STATION SERVING SATELLITE AMPORTS	SAR AGENCY (F SIATION ON TEMANT PART OF Matuoral Sar Plan)
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ונ	LOCAL CONTROL							_							
Del	PROJECT CONTROL	-													
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(9)83	FLIGHT DATA (GCA)	\vdash	<u> </u>			<u> </u>									
(d)))#	FINAL CONTROL FINAL CONTROL												<u> </u>		
(S) 34	PRIVAL CONTROL FAINAL CONTROL														
(3) 84	ARRIVAL CONTROL IGCA) COORDINATOR/JUPERVIDOR	┼──					<u> </u>								
(9)80	(ASS) ATAG THOUT														
(#) G3	APPROACH CONTROL		<u> </u>												
(N) 3V	(RAGAR-NOM) DEFATURE CONTROL TIME CONTROL														
C2(III)	(NOR-WYDY) COOUDWYLOU\SALEHAISOU MON-WYDY)	_		 				<u> </u>							
(W) G4	ATAG THRUT (MAGAR)	ļ	ļ	ļ											
(B) DV	JOHTHOS NOADAGA (MAGAR)	L			ļ										
90(8)	JORTHOS SAUTRAL (MAGAR)														
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ATCF COMMUNICATIONS STANDARD ATCF CLASS I

> PURPOSE: INTERFACILITY COORDINATION FUNCTION: EXTERIOR LINES

KEY AFQUMED

TION: INTERIOR LINKS		•	1504	5	3	2	ž	C8(II)	(8) Q J	FC (P)	10.01	AR(E)	C8(6)	F0 (II)	ACUU	90(11)	C\$(8)	10(II) 1	AC(R)	0C(N)	AA(II)	CSIN	(V)04	RC(A)	RC (A)	CS(A)	5	=	
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ATCF COMMUNICATIONS STANDARD ATCF CLASS I

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RED RED IF AIR TERMINIAL INCORPORATED RED IF TERMINIAL IFR SERVICE NOT PROVIDED FROM TOWER CAB RED IF LOW APPROACH AND LANDING SERVICE PROVIDED

		AIRCRAFT LOCATION	AIRCRAFT IDENTIFICATION	AIRCRAFT POSITIONING
d 0	FLIGHT DISPACENEN			
(T)@9	ATAG THEIR (TOWER)			
63	DEFINEWA C revence			
38	JOATNOJ GNUGAZ			
יי זו	LOCAL CONTROL			
Jd	COONDIMATOR/SUPERVISOR			
(1)(C) (2)(L) (2)(L)	(TOWER) FLIGHT DATA (SCA)			
EC(b)	(PAR)			
EC(S)	FIMAL CONTROL FIMAL CONTROL		AG REO	
(9) NA	ARRIVAL CONTROL (SCA)		0 REQUIREMENT	
(S)83	(BCA) COORDHIATOR/SUPERVISOR			
ŁD (#)	ATAG THRUJ (AAGAN-HOH) (AATAR-HOH)	-		
VC(N)	APPROACH CONTROL (NON-RADAR) DEPARTI'NE CONTROL			
	COOKDINFLDV/SRLEKAI20W (NOR-WYDV)			
ED(U) C2(U)	(nadar-now) Atas thely (nadar)			
VC(U)	APPROACH CONTROL (MADAR)			
BC(#)	(RADAR) DEPARTURE CONTROL			
(<i>R</i>) RA	ARNYAL CONTROL (RADAR)			
(8)50	CDORDIMATOR/SUPERVISOR (RADAR)			
(V) 0.1	FLIGHT DATA			
(V)) III	AREA CONTROL (AM AAMSE) (AM AAMSE)		+	
RC(A)	- (390VU UV)			
C2(V) BC(V)	- (39444 ett)			

ATCF EQUIPMENT STANDARD CLASS I

PURPOSE: AIRCRAFT CONTROL

FUNCTION: DISPLAYS

		DAROMETRIC PRESSURE	TIME	WINDSPEED AND DIRECTION	WEATHER
40	FLIGHT DISPATCHER		•	•	•
(1)64	FLIGNT DATA (TOWER)				
00	CLEARANCE DELIVERY				
29	CONTROL				
34 	FIGLEC CONTROL				
	COORDINATOR/SUPERVISOR				
LD (C)	(TOWER) FLIGHT DATA (GCA)				
FC(P)	FINAL CONTROL FINAL CONTROL				
(\$)34	FINAL CONTROL FINAL CONTROL				
(3)84	ARRIVAL CONTROL (A33)				
(5)\$3	(CCA) COORDIMATOR/SUPERVISOR				
(N)C1	ATAQ THOUS (RAQAR-WOW) IQUTUQ HOAPPORTA				
VC(II)	APPROACH CONTROL (NON-AADAC) DEPARTURE CONTROL				
(N) 30	{ndan-ndan} Coordinaton/supervisor				
ED(#) 	(NAGAR-NON) Atas thous (nagar)				
(U) OV	ICATRO CONTROL (MADAR)				
DC(W)	DEPARTURE CONTROL (RADAR)				
(N) NA	ARRIVAL CONTROL (RAGAR)				
(¥)\$3	COORDINATOR/SUPERVISOR (RADAR)		- +		
(V)@1	FLIGHT DATA (AIR RANGE)				
(V))	(AMR RANGE) Area control				
C2(V)	(AM MANGE) Coordinaton/Supervisor (Am Mange)				

• REQUIRED

KEY:

ATCF EQUIPMENT STANDARD CLASS I

PURPOSE: INFORMATION SOURCES

FUNCTION: DISPLAYS

		FLIGHT PROGRESS RECORD	FLIGHT PROGRESS DISPLAY
40	FLIGHT DISPATCHER	•	•
(T) 04	FLIGHT DATA (TOWER)		
00	DEFINEWA		
39	GROUND CONTROL		
וכ	LOCAL CONTROL		
54	PROJECT CONTROL		
(T)23	COORDINATOR/SUPERVISOR (TOWER)		
ED(8)	FLIGHT DATA (GCA)		
£C(b)	FINAL CONTROL (FAN)	-	
EC(2)			
(3) 84	ARRIVAL CONTROL (GCA) COORDINATOR/SUPERVISOR		
(9)\$3	(CCA)		
(11)00	(NON-NADAR)		
DC(III)	(KON-AADAR) DEPARTURE CONTROL		
	(NOM-NADAR) COORDINATOR/SUPERVISOR (NGN-RADAR)		
£0(¥)	ATAG THRUF		
(U) 34	APPROACH CONTROL (RADAR)		
00(8)	JOATNOS SAVTAGO (Aagaa)		
(N) RA	ARMYAL CONTROL (Radar)		
C2(W)	COORDINATOR/SUPERVISOR		
(A) 0 3	ATAG THRIJ (30MAR RIA)		
(Y) 3	JORTNO CONTROL (30HAA RIA)		
AC(A)	AREA CONTROL (AIR RANGE)		
C2(V)	CODRDIMATOR/SUPERVISOR (AIR ARNGE)		

ATCF EQUIPMENT STANDARD CLASS I

PURPOSE: FLIGHT PROGRESS DOCUMENTATION

FUNCTION: RECORD/DISPLAY

FFICTI

A-7

• REQUIRED

KEY:

		SYSTEM	-	۵.	FREQUENCY	ENCY		•			
OP ERATING POSITION	YAAMING	YEGNATE	EWEBBENCL	NHE (VIV)	AHE (VW)	AHE (EW)	HF	TIMENAAT	RECEIVE	APLICATION	REMARKS
Flight Dispatcher	×						×	×	×	Ship-to-Shore	Master ATCOM Facilities only
Flight Data (Tower)											No Requirement
Clearance Delivery	×			×				×	×	Cleara nce Delivery	
Clearance Delivery	×				×			×	×	Clearance Delivery	
Ground Control	×			×				×	×	Ground Control	
Ground Control	×				×			×	×	Ground Control	
Ground Control	×			×				×		ATIS	
Local Control	×			×				×	×	Tower Primary	
Local Control		×		×				×	×	Tower Primary	
Local Control			×	×				×	×	Tower Primary	
Local Control	×				×			×	×	Tower Primary	
Local Control		×			×			×	×	Tower Primary .	
Local Control			×		×			×	×	Tower Primary	
Local Control	×			×				×	×	LSO Primary	Facilities supporting FCLP requirements
Local Control	×			×				×	×	Emergency (243.0)	

ATCF COMMUNICATIONS STANDARD CLASS II

PURPOSE: AIRCRAFT CONTROL

		SYSTEM			FREQUENCY	ENCY					
OPERATING POSITION	YAAMIA9	YEGNATE	EMERGENCY	(MA) 3HU	AHE (VM)	AHE (EW)	HE	TIMENAAT	RECEIVE	APPLICATION	REMARKS
Local Control		×		×				×	×	Emergency (243.0)	
Local Control			×	×				×	×	Emergency (243.0)	
Local Control	×				×			×	×	Emergency (121.5)	
Local Control		×			×			×	×	Emergency (121.5)	
Local Control			×		×			×	×	Emergency (121.5)	
Local Control	×			×				×	×	SAR (282.8)	Facilities supporting defined SAR requirement
Coordinator/Supervisor (Tower)	×			×				×	×	Clearance Delivery	
Coordinator/Supervisor (Tower)	×				×			×	×	Clearance Delivery	
Coordinator/Supervisor (Tower)	×			×				×	×	Ground Control	
Coordinator/Supervisor (Tower)	×				×			×	×	Ground Control	
Coordinator/Supervisor (Tower)	×			x				×	×	Tower Primary	
Coordinator/Supervisor (Tower)	×				×			×	×	Tower Primary	
Coordinator/Supervisor (Tower)	×			×				×	×	LSO Primary	racilities supporting rour requirements
Coordinator/Supervisor (Tower)	×			×				×	×	Emergency (243.0)	
Coordinator/Supervisor (Tower)	×				×			×	×	Emergency (121.5)	

ATCF COMMUNICATIONS STANDARD

PUNPOSE: AIRCRAFT CONTROL -Continued

LS SNO

OPNAVINST 3722.35 **2 1 SEP 1988** Class II Equipment Standards

Enclosure (1) ATTACHMENT B

B-2

ATCF COMMUNICATIONS STANDARD

PURPOSE: AIRCRAFT CONTROL -Continued

OPNAVINST 3722.35 2 1 SEP 1988 Class II Equipment Standards

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	•	SYSTEM		_	FREQUENCY		Τ				
OFERATING POSITION	VALABUM	YEGNATE	ENGENCA	(NV) 4KA	ARE (VW)	ANE (EN)	10	TIMENAIT	RECEIVE	APTLICATION	REMARKS
Flight Dispatcher											No Requirement
Flight Data (Tower)											
Clearance Delivery											
Ground Control	×					×		×	×	Aircraft Emergency	
Ground Control	×					×		×	×	Fire Emergency	
Ground Control	×					×		×	×	Security	If airport access required by local directive
Ground Control	×					×		×	×	Crew Vehicles	-
Local Control											No Requircement
Coordinator/Supervisor (Tower)	×					×		×	×	Aircraft Emergency	
Coordinator/Supervisor (Tower)	×					×		×	×	Fire Emergency	
Coordinator/Supervisor (Tower)	×					×		×	×	Security	If airport access required by local directive
Coordinator/Supervisor (Tower)	×					×		×	×	Crew Vehicles	

ATCF COMMUNICATIONS STANDARD CLASS II

PURPOSE: VEHICLE CONTROL

		ω.						•	•			-				•							
		H	69	30	ກ	34	(1)53	(3) 64					(111) 314	(III) 20	(10183)	(10) 44	(III) JV						(1)30
		4748 71617 (199997)	BEITABLE CREVEVICE	SPANS CALIFO	10111102 11/301		(182.440.1.)			ANNUAL CONTRACT	USINGL/4/USINISU013	VANG LINGT										JOTTIOS ASAA	
	CONTRACT TOWERS WITHIN ATC! AND/ACE	•			•		+	-	_	 						┢──	┝─	\vdash					
											ļ					┼──			 				
		•			<u> </u>										<u> </u>								
	APPOARCH CONTROL JACUTRES AD-MINIME ATCI AREA/ACE	•			•						<u> </u>								 				T
	APPOANCIII CONTINAL I'ACUTIKES AD ANNUM SECTION ANISPACE				-	-		<u> </u>		-				†		$\left \right $							T
		•			-	-		-						†		-			<u> </u>	 			
	ABTCCs SI Avuns SECTOR ABSPACE																						
	ADC: WITH TWICE ATC? AAC BARDOF INSPORTANISTICS																			ļ			
	ABC: WITH WHICH GELTER AAS HAADOOFF (NESPONSURALIFIES													†	\vdash								
	FACHACO WITH WINCH ATCF RAIL HADDOFF INCRPONSIDELITIES								 		ļ				<u> </u>								
	FACEFACE WITH WINCH SECTOR HAS HARDOFF (NESPONSIONLITHES													 .			<u> </u>						
•															-	┢──	-		<u> </u>	·	<u> </u>		
•	FLIGHT BEITWICE STATION SERVINAL BATELLITE AMPONTS								<u> </u>					†			<u> </u>	-			<u> </u>		
		•												ļ					<u> </u>	ļ			

ATCF COMMUNICATIONS STAILDARD ATCF CLASS II

> PURPOSE: MITERFACTULTY COUNDMATHIN FUNCTION: EXTEMON LINES

.

Enclosure (1) ATTACHMENT B

B-5

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CTION: INTERIOR LINKS			19(1)	5	3	2	ž	CSC	3)8,	1C(P)	FC (8)	AB(G)	(B) (B)	Ĵ	AC (N)	96.11	CS (II)	F 8 (B)	AC (B)	e (B)	AA(A)	CB	70(A)	IAC (A)	RC (A)	CS(A)	M	=	4
		FLIGHT BISPATCHER	FLIGHT BATA (TOWER)	CLIARABCE DEILIVERY	GRDUND CONTROL	LOCAL CONTROL	PRDJECT CONTROL	CODADMATOR/SUPERVISOR (Tqiwer)	FLIGHT BATA (GCA)	FURAL CONTROL (FLIR)	FMAL CONTROL (ACLS)	ARIIVAL CONTROL (6C.A)	COMBINATOR/SUPERVISOR (6C.4)	FLIGHT BATA (INNI - AADAR)	APIPROACH CONTROL (NGH-RABAR)	DEPARTURE CONTROL (MGM-RADAR)	COMBINATOR/SUPERVISOR (NGU-RADAR)	FLIGHT BATA (RABAR)	API'RGACM CONTROL (RADAR)	BEI'AATURE CONTROL (RADAR)	ARIITVAL CORTAGL (RABAR)	COIRDINATOR/SUPERVISOR (RADAR)	FLINIT BATA (AHI RANGE)	MISSION CONTROL (ANI AANGE)	ARIA CONTRO: (AMI RANGE)	COUNDINATOR/SUPERVISON (ANI AANGE)	WENTHER BERVICE	TRANSIENT Limi	AIR TERMINAL
FLIGHT DISPATCHER	94		•					٠																			•	•	,
FLIGHT DATA (TOWER)	FD(T)	•		٠	•	•		٠																			•	•	1
CLEARANCE DELIVERY	CB	Ι	٠			•		٠						_			t I												
GROUND CONTROL	60		•			•		•																					
LOCAL CONTROL	ις		•	•	•			•																					
PROJECT CONTROL	PC																												
COORDINATOR/SUPERVISOR (TOWER)	C\$(T)	•	•	٠	•	٠																					•	•	,
FLIGHT DATA (GCA)	FD(6)																												
FIRAL CONTROL (PAR)	FC(P)								_			_																	
FINAL CONTROL (ACLS)	FC(8)																			-				1					
ARRIVAL CONTROL (SCA)	AR(6)																												
COORDINATOR/SUPERVISOR (SCA)	CS(6)			-					·																				
FLIGHT BATA (ROU-RABAR)	FD (N)																											_	<u> </u>
APPROACH CONTROL (BOR-RABAR)	AC (N)					_																							
DEPARTURE CONTROL (NON-RABAR)	BC(N)																												
COORDINATOR/SUPERVISOR (NON-RABAR)	CS(N)																												
FLIGHT DATA (RABAR)	FD(A)							ĺ										-+			+	_						-	
APPROACH CONTROL (RABAR)	AC (R)											-										-+				-			·
DEPARTURE CONTROL (RABAR)	BC(R)				Ì								-															+	
ARRIVAL CONTROL (RABAR)	AR(R)								-									- †	-										·
COORDINATOR/SUPERVISOR (RADAR)	CS(R)											-+															-+		
FLIGHT DATA (AR RANGE)	FD(A)					1	+				+							-+			-					-+			
MISSION CONTROL (AIR RANGE)	MC(A)						-								-	-		-+									-+		
AREA CONTROL (AM RANGE)	RC(A)				-			\uparrow		+									-+		-+								
COORDINATOR/SUPERVISOR (AIR RANGE)	CSIAI					-														_				-+					
WEATNER SERVICE	wx	•	•	+	-	-	-+	•										\rightarrow	-		-+			\rightarrow					
TRANSIENT	т	•	•	-+	+		+	•		-+												+							
AIR TERMINAL	AT	-	,	+	-+			1		+	+		+						+									+	

ATCF COMMUNICATIONS STANDARD ATCF CLASS II

REQUIRED
 I REQUIRED IF AIR TERMINAL INCORPORATED

LINK REGURED BETWEEN EACH POSITION OF SAME TYPE IF MORE THAN ONE INSTALLED.

C2(V)	(VIN WYNCE) COOMDMYLDW/SRLEWLISDU			
RC(A)	AREA CONTROL (AIM RANGE)			
NC(V)	(VW UVNCE) WIZZION CONLUGT			
(V) Q ±	ATAR THOLIT (30NAN MA)			
C3(¥)	(UVBVE) COOUDINATOR/SUFERVISOR			
(2)24	ARRIVAL CONTROL (RABAR)			-
9C (U)	(HVBVH) DELVHVH, COULING			
VC(K)	APPROACH CONTROL (RABAR)			
£0(¥)	ATAR THRU? (ILARAAR)			
C2(#)	(IIOR-EVEVIL) Codudinylow/Salevaisou			
DC(W)	(NON-EVENT) Departnee Control			
VC(N)	APPRACK CONTROL (NON-RABAR)			
ED (M)	ATA S THOU T (Argar-No u)		_	
(9)50	(CCV) COOLDINYTOR/SUPERVISOR		I	
(3) 84	ARRIVAL CONTROL (GCA)		IREM	
(S))	(VECTS) ENNYT CONLUNDT		NO REQUIREMENT	
£C(b)	FINAL CONTROL (PAR)			
10(C)	FLENT BATA (96A)			
ເມຣວ	(LOMEK) CODUDHIVLOU\SRLEWAROW			
34	PROJECT CONTROL			
ກ	FOCUT CONLUCT			
39	TOULINGS CHARGES			
CD	DETMENA DETMENICE			
(T) 61	ATAG THEN (TOWER)			
40	RENGHT DISPATCHER			
			TION	9
		8	AIACRAFT IDENTIFICATION	NING
		CATI	LINE	E S
		19	ē	2
		RAF	RAFI	RAF
		AIRCRAFT LOCATION	AIRC	AIRCRAFT POSITIONING
		Ľ		

ATCF EQUIPMENT STANDARD CLASS II

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PURPOSE: AIRCRAFT CONTROL

FUNCTION: DISPLAYS

		BAROMETRIC PRESSURE	TIME	WINDSPEED AND DIRECTION	WEATHER
36	FLIGHT DISPATCHER		•	•	•
(T) G 4	ATA THRUF (M3WOT)		•		
60	DEFINERY		•		
		•	•	•	•
34 	FROJECT CONTROL	•	•	•	•
C2(1)	COORDINATOR/SUPERVISOR COORDINATOR/SUPERVISOR	•	•	•	•
ED(C)	FLIGHT DATA (SCA)				
FC(P)	FINAL CONTROL (PAR)				
EC(8)	(VCF2) ENVE CONLUDE				
(3) MA	AMRIVAL CONTROL (SCA)				
(9)\$3	FLIGHT DATA (GCA) FLIGHT DATA				
(11) @d	(NON-NON)				
DC(R)	(NOR-NOR) DEPARTURE CONTROL (NON-NAAR)				
C2(II)	(NON-UNDER) COORDINV108/2555EHAI296				
(V) 04	ATAG TNBLI (AAGAR)				
VC(W)	APPROACH CONTROL (RADAR)				
(1) 20	DEPARTURE CONTROL (RADAR) ARRIVAL CONTROL				
(8)84	COOUDWALDU\RAIBOU				
LD(V) C2(U)	(RAGAR) Atag Tholif (394Ar Ma)				
WC(V)	(VIU UVICE) WIZZION CONLUGT				
NC(A)	AREA CONTROL Area Control (300ar Mai)				
C2(V)	CODATA TOR/SUPERVISOR (30MAR ANGE)				

ATCF EQUIPMENT STANDARD CLASS II

PURPOSE: INFORMATION SOURCES

FUNCTION: DISPLAYS

Enclosure (1) ATTACHMENT B • REQUIRED

KEY:

		_
(VIN NVNEE) C2(V) COULINNVAEN STATUTER		
VER CONTONL		
(VIU VUNEE) UC(V) UNISSION EDMINET		
(A) 61 (A		
(UVDVE) COURTENANT	1	1
(E) RA CANTAL CANTAL CANADA		
(EVEVE) PC(E)		
(BYDYB) VC(B) VC(B)		
FLEAT AARA (RADAR) FB(R)	Τ	
(ROR-BYBYS) C3(R) COOVERYJAN (BRICHARDON		
(NON-SYDYC) DC(N) DELVILLOE CONLOR		1
APPROACH CANTON: AC(II)		
(INDII-SIVENIE) ED (III)		
(BCV) CS(C) CS(C)		
(BCA) ARIVAL CONTRAL (BCA) ARIVEL		
(VCI2) LCI3) LCI3		
LEVE) EC(L)		
(8CV) 62CV 68(8)		
(LOMEN) C3(L) COOUDINFLOUVSING C3(L)		
24 TOULOU 103-004		
רסכער כמתנופור רכ	•	•
BROWND CORTINOL 6C	•	•
DEFINERAL CD CEEVIIVINCE	•	•
FLIGHT BATA FUILT FORT	•	•
FLIGHT DISPATCHER DP	•	•

FUNCTION: RECORD/DISPLAY

PURPOSE: FLIGHT PROGRESS ROCUMENTATION

ATCF EQUIPMENT STANDARD CLASS II

Enclosure (1) ATTACHMENT B

+ REQUIRED

KEY:

FLIGHT PROGRESS DISFLAY FLIGHT PRIMERSS RECORD

DPENATING Positica		SYSTEM	_	E.	FREQUENCY	NCV			
	YAAMIA9	YEONATZ	EWERGENCY	(MA) 3HU	AHE (VW)	HE AHE (EM)	TIMENAAT	 APPLICATION	REMARKS
Flight Dispatcher	×					×	×	 x Ship-to-Shore	Master ATCOM Facilities only
Flight Data (Tower)									No Requirement
Clearance Delivery	×			×			×	x Clearance Delivery	
Clearance Delivery	×				×		×	 x Clearance Delivery	
Ground Control	×			×			×	 x Ground Control	
Ground Control	×				×		×	x Ground Control	
Ground Control	×			×			×	 ATIS	
Local Control	×			×			×	x Tower Primary	
Local Control		×	 	×			×	 x Tower Primary	
Local Control			×	×			×	 x Tower Primary	
Local Control	×				×		×	 x Tower Primary	
Local Control		×			×		×	 x Tower Primary	
Local Control			×	•	×		×	 x Tower Primary	
Local Control	×			×			×	x LSO Primary	Facilities supporting FCLP requirements
Local Control	×			×			×	 x Emergency (243.0)	

ATCF COMINUNICATIONS STANDARD CLASS IIIA

PURPOSE: AIRCRAFT CONTROL

Enclosure (1) ATTACHMENT C

Enclosure (1) ATTACHMENT C

ATCF COMMUNICATION\$ STANDARD	CLASS ILLA
IN	URPOSE: AIRCRAFT CONTROL -Continued
	PURPOSE: A

		SYSTEM	-		FREQUENCY	ENCY					
OPERATING POSITION	VAAMIN	YEGNATE	EMERGENCY	(MA) THU	AHE (VW)	AHE (EW)	NE	TIMENAAT	RECEIVE	APPLICATION	REMARKS
Local Control		×		×				×	×	Emergency (243.0)	
Local Control			×	×				×	×	Emergency (243.0)	
Local Control	×				×			×	×	Emergency (121.5)	
Local Control		×			×			×	×	Emergency (121.5)	
Local Control			×		×			×	×	Emergency (121.5)	
Local Control	×			×				×	×	SAR (282.8)	Facilities supporting defined SAR requirement
Coordinator/Supervisor (Tower)	×			×				×	×	Clear ance Delivery	
Coordinator/Supervisor (Tower)	×				×			×	×	Clearance Delivery	
Coordinator/Supervisor (Tower)	×			×				×	×	Ground Control	
Coordinator/Supervisor (Tower)	×				×			×	×	Ground Control	
Coordinator/Supervisor (Tower)	×			×				×	×	Tower Primary	
Coordinator/Supervisor (Tower)	×				×			×	×	Tower Primary	
Coordinator/Supervisor (Tower)	×			×				×	×	LSO Primary	Facilities supporting FCLP requirements
Coordinator/Supervisor (Tower)	×			×				×	×	Emergency (243.0)	
Ccordinator/supervisor (Tower)	×				×		_	×	×	Emergency (121.5)	

OPNAVINST 3722.35 2 1 SEP 1988 Class IIIA Equipment Standards

C-2

	8	SYSTEM			FREQUENCY	NCY	<u> </u>		-		
OPENATING Pesition	PRIMARY	YEGNATE	EMERGENCY	NHE (VIN)	AHE (VW)	AHE (EW)	MF	TIMENAAT	RECEIVE	APPLICATION	REMARKS
Coordinator/Supervisor (Tower)	×			×				×	× ×	SAR (282.8)	Facilities supporting defined SAR requirements
Flight Data (GCA)											No Reguirement
Final Control (PAR)	×			×				×	×	GCA Primary	
Final Control (PAR)	×				×			×	छ ×	GCA Primary	
Final Control (PAR)	×			×			~	×	X A	Single Frequency Approach	All assigned to ATCF
Final Control (PAR)	×			×				×	ख ×	Emergency (243.0)	
Final Control (PAR)	×				×		~	×	ଘ ×	Emergency (121.5)	
Final Control (ACLS)	×		-	×				×	ŭ ×	GCA Primary	
Final Control (ACLS)	×			×			^	×	X	Single Frequency Approach	All assigned to ATCF
Final Control (ACLS)	×			×				×	ਸ਼ ×	Emergency (243.0	
Coordinator/Supervisor (GCA)	×			×				×	ð ×	GCA Primarv	
Coordinator/Supervisor (GCA [\]	×				×			×	ы х	GCA Primary	
Coordinator/Supervisor (GCA)	×		-	×				×	N A X	Single Frequency Approach	All assigned to ATCF
Coordinator/Supervisor (GCA)	×			×				×	년 X	Emergency (243.0)	
Coordinator/Supervisor (GCA)	×				×			×	x Er	Emergency (121.5)	

PUNPOSE: AIRCRAFT CONTROL-Continued CLASS IIIA

Enclosure (1) ATTACHMENT C

OPNAVINST 3722.35 **2 1 SEP 1988** Class IIIA Equipment Standards

C-3

		SYSTEM			FREQUENCY	ENCY		┢			
OPERATING Position	YAAMIA9	YEGNATE	EMERGENCY	(MA) THU	AHE (VW)	AHE (EW)	Ht	TIMENAAT	RECEIVE	APPLICATION	REMARKS
Flight Dispatcher											No Requirement
Flight Data (Tower)											
Clearance Delivery											
Ground Control	×					×		×	×	Aircraft Emergency	
Ground Control	×					×		×	×	Fire Emergency	
Ground Control	×					×		×	×	Security	If airport access required by local directive
Ground Control	×					×		×	×	Crew Vehicles	
Local Control											No requirement
Coordinator/Supervisor (Tower)	×					×		×	×	Aircraft Emergency	
Coordinator/Supervisor (Tower)	×					×		×	×	Fire Emergency	
Coordinator/Supervisor (Tower)	×					×		×	×	Security	If airport access required by local directive
Coordinator/Supervisor (Tower)	×					×		×	×	Crew Vehicles	
Flight Data (GCA)											No requirement
Final Control (PAR)											
Final Control (ACLS)											

ATCF COMMUNICATIONS STANDARD CLASS IIIA

PURPOSE: VEHICLE CONTROL

Enclosure (1) ATTACHMENT C -

-		_	_	_	 _	 _	_			 	
	REMARKS	No Requirement									
	APPLICATION		•								
	RECEIVE										
	TIMENAAT										
X	HF	ļ				 		 		 	
FREQUENCY	AHE (EW)				 						
FREO	AHE (VW)					 			 		
	(MA) 3HU				 			 	 	 	
U	EMERGENCY								 	 	
SYSTEM	YEGNAT2				 				 	 	
	YAAMIA9	<u>ч</u>			 	 			 	 	
	OPERATING POSITION	Coordinator/Supervisor (GCA)									

ATCF COMMUNICATIONS STANDARD PUNPOSE: VEHICLE CONTROL -Continued

OPNAVINST 3722.35 2 1 SEP 1988 Class IIIA Equipment Standards

		CONTROL TOWERS WITHIN ATC? ANDPACE	CONTINUE TOWERS WITHIN SECTOR ARSPACE	AMPERIS AT WINCH LOCAL FLIGHTS MAY TEAMMATE WITHOUT FALMS DO-75	APPRANCH CONTRON FACAUTHES ADJOURNON ATCY AMASPACE	APPRANCII CONTRAN FACULTIES Alabumur Séctor Amerace	ANTEES BERNING ATEF ANSPACE	ALTCC: BEAVING BECTOR ANDPACE	AACA WITH WHICH ATCF HAS HARDOFF ACSPONSIONLITICS	noca with which sector has harder a representing	FACSFACA UNTIN WINCH ATCF HAS HANDOFF DESPONSIONLITHE	FACEFACS WITH WINCH SECTOR MAS	FLART SERVICE STATION SERVING PARAAT AAPORT	FLIGHT SERVICE STATION SERVING SATELLITE AMPONTS	san Acency Ny station on tenant pant of Rational san plan)
48	FLIGHT DISPATCHER			•			•						•		•
(L) GA	FLENT BATA (Tewer)	•		•		•	•								•
63	DEFINERA CEEVAVICE														
39	CUDANO CONLUCT														
ກ	FOCVF CONLUCT	•				•									
	1001100 1037000	<u> </u>				-									
ເມຣວ	(LAMEN) (LAMEN) COOUDHIVLOU\SALEUAIDU	•		•		•	•								•
(2)64	FILM CONTINUL FLANT CONTINUL					-									
(d) 3d						•	_								
(8) 34	VUULAT COLLUOT					•									
(8)87	COOUDHIV19U\2ALEEKAISEE IECV)	•				-									
L9 (II) 	(A38) ATAR THRLT (BARAR)														
VC(III)	APPRACH CONTRAL APPRACH CONTRAL MICH MACH														
90 (8)	(IDDE-EVEVU) DESVILLAGE CONLIDE														
(8)80	(IIOH-UVBVB) COOUDHIPLOU/SRLEHAIDOU					_									
130 G.J	PLANT BATA (MARAN)														
(W) 3V	(RABAR)						-								
PC (U)	DEPARTURE CONTROL MARANI CONTROL MARANI CONTROL														
(#)#4	COOUDINYLOU/SREEMIZOU (UVDVI)	_			-+		-								
19 (V) 19 (V) C2 (U)	(RABAR) ATAR THRUT										-				
	(VIII UVINGE) VILIZION CONLUGE (VIII UVINGE)														{
(V) 38	Antho Control Antho Control		_												
CS(V)	(VM UVINCE) COUDMITLOU\2R6EVAIEOU				_		_								

ATCF COIMMIUMICATIONS STANDARD ATCF CLASS HIA

PURPOSE: INTERFACULTY COORDINATION FUNCTION: EXTERIOR LINES

Enclosure (1) ATTACHMENT C entre
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ATCF COMMUNICATIONS STANDARD ATCF CLASS IIIA

	POSE: INTRA-FACILITY CCCRDINATIOI CTION: INTERIOR LINKS	[*		8	3	2	ž	CS(I)	191CI	1013	FC (S)	ARIG	CSIE)	Ĩ	AC (III)) E	CS(III)	Î Î	ACIN	DC (N)	(U) V	CS(R)	FB(A)	MC(A)	NC (A)	CS(A)	T.M.	=	4
		FLIGHT BISPATCHER	FLIGHT DATA (TOWER)	CLEARANCE DELIVERY	GROUND CONTROL	LOCAL CONTROL	PROJECT CONTROL	Coordina Ton/Supervisor (Tower)	FLIGHT DATA (GCA)	FINAL CONTROL (PAR)	FINIAL CONTROL (ACLS)	ARRIVAL CONTROL (SCA)	COORDINATOR/SUPERVISOR (SCA)	FLIGHT BATA (HON-RADAR)	APPRANCH CONTROL (INDR-RADAR)	DEPARTURE CONTROL (INDI: FADAR)	CORDINA TOR/SUPERVISOR (NOH-RADAR)	FLIGHT DATA (RADAR)	APPRACH CONTROL (RADAR)	DEPARTURE CONTROL (ALDAR)	ARRIVAL CONTROL (RABAR)	COORDMATDA/SUPERVISOR (RADAR)	FLIGHT DATA (AM RANGE)	MISSION CONTROL (AM RANGE)	AREA CONTROL (AMR AANGE)	COORDINATOR/SUFEAVISON (AIR RANGE)	WEATHER SERVICE	TRANSIENT Line	AIN TERMINAL
[FLIGHT DISPATCHER DP		•					•	٠																		•	•	1
1	FLIGHT DATA (TOWER) FD(T)	•		•	•	•		٠	٠																		•	•	1
	CLEARANCE DELIVERY CD		•			•		٠																					
	GROUND CONTROL BC		•			•		٠																					
	LOCAL CONTROL LG		•	•	•			٠	٠	•	٠																		
L	PROJECT CONTROL PC																												
ſ	COGREMATOR/SUPERVISON (TOWER) CS(T)	•	•	•	•	•			•	•	٠																•		
Ĩ	FLIGHT DATA (GCA) FD(G)	•	•			•		•		•	•																		
ſ	FINAL CONTROL (PAR) FC(P)					•		•	٠		•																	4	
	FINAL CONTROL (ACLS) FC(S)	T	1	1		•		•	•	•																			
Ī	ARRIVAL CONTROL (GCA) AR(G)		1																										
ſ	COORDINATOR/SUPERVISOR (GCA) CS(G)			1																									
ſ	FLIGHT BATA (NON-RABAR) FD(N)																												
Ţ	APPROACH CONTROL (NOR-RADAR) AC(R)																												
ſ	DEPARTURE CONTROL (NON-RADAR) DC(N)																									-			
	COORDINATOR/SUPERVIEOR (NON-RADAR) CS(N)	1																											
	FLIGHT DATA (RABAR) FD(R)																											_	
	APPROACH CONTRO- (RADAR) AC(R)	1																										-	\square
Γ	DEPARTURE CONTROL (RABAR) DC(R)																												
	ARRIVAL CONTROL (RAGAR) AR(R)	T																											-1
ſ	COORDINATOR/SUPERVISOR (RADAR) CS(R)	1														-			- 1										\square
Ţ	FLIGHT DATA (AIR RANGE) FD(A)	1																											
F	MISSION CONTROL (AIR RANGE) MC(A)	T																											
Γ	AREA CONTROL (AM RANGE) RC(A)	1																		_		-							
Γ	COORDINATOR/SUPERVISOR (AIR RANGE) CS(A)	Γ																		_									
ſ	WEATHER SERVICE WX	•	•					•										+				1							
T	TRANSIENT LINE TL	•	•				-+							_				-						_					
ſ	AIR TERMINAL AT	1	1							-+				-		-†	-+		-+				_				-+		
Ľ	AIR TERMINIAL AT	1	1					NOTE																				_	

KEY • REQUIRED 1 REQUIRED IF AIR TERMINIAL INCORPORATED

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LINK REQUIRED BETWEEN EACH POSITION OF SAME TYPE IF MORE THAN ONE INSTALLED.

PURPOSE: AINCRAFT CONTROL

FUNCTION: DISPLAYS

ATCF EQUIPMENT STANDARD CLASS IIIA

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AIRCRAFT IDENTIFICATION

AIRCRAFT LOCATION

AIRCRAFT POSITIONING

KEY:

• REQUIRED

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COORDIMATOR/SUPERVISOR (AM RANGE)

COORDINATOR/SUPERVISOR

AREA CONTROL

ATAG THƏIJI (39MAR RIA)

(VILL INVICE) WIZZION CONTHOL

JORTHOD JAVIARA (RAGAR)

DEPARTURE CONTROL (RADAR)

APPROACH CONTROL (RADAR)

DEPARTURE CONTROL (NON-RADAR)

APPROACH CONTROL (NOK-RADAR)

AORIVARIANS\AOTAMBAOOD (5CA)

COORDINATOR/SUPERVISOR (TOWER)

ATAG THƏLIT (RAGAR-NON)

ARRIVAL CONTROL (SCA)

(VCT2) ENVT CONLEDT

FIMAL CONTROL (FAA)

FLIGHT DATA (SCA)

PROJECT CONTROL LOCAL CONTROL

SUBURD CONTROL

FLIGHT DISPATCHER

DEFINERA CLEARANCE

FLIGHT BATA (TOWER)

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÷ Ō •

(NON-WODAN) CODRDIMATOR/SUPERVISOR

ATAG THBUJ (RAGAR)

(V)53

(V) 3H

(¥) 388

(V)OJ

C2(B)

(A)AA

(1)))(

(N) 34

(N) 04

(11)\$3

(8) 30

(N) 3V

(N)61

(8)23

(3)AA

EC(2)

(4)34

(B) 04

(1)\$3

34

31

38

83

(L) G4

40

		DAROMETRIC PRESSURE	TIME	WINDSPEED AND DIRECTION	WEATHER	
48	RINGUT DISPATCINER		•	•	•	
(1)64	ATAG THRUP (TOWER)		•			
63	DETIAENA Crevevice		•			
39	GNDNUD CONTROL	•	•	•	•	
ກ	LOCAL CONTROL	•	•	•	•	
24	PROJECT CONTROL	ŀ				
CBCD	COORDINATOR/SUPERVISOR	•	•	•	•	
(8) 94	FLIGHT DATA (GCA) FIMAL CONTROL	┣──			 	
EC(b)	FINAL CONTROL			•	<u> </u>	
FC(8)	VULLE CONTROL (ACLE)	[•		
(9)89	COOUDIEV-201/201/EUAI20U (BCV)		•	 	•	ł
LD (N)	(ASS) ATA THOUT (NOU-NOU)	 		 		
VC(N)	APPROACH CONTROL NORMACH CONTROL (NON-ADAR)	<u> </u>			ļ	
DC(N)	DEPARTURE CONTROL (NON-NAAR)					
C2(N)	(NON-ADDA) (NON-ADDA)					
{ W }@J	ATAE THRUT (Ragar)	1		1	1	1
(N) 3V	APPROACH CONTROL (RADAR) DEPARTURE CONTROL	+				1
(V) 20	(RAGAR) (RAGAR)					1
(#)#A	COORDINATOR/SUPERVISOR	┼──			+	
(1)80	(RAGAR) Atag Tholia			<u> </u>		
(V) 84	(AIM RANGE) MISSION CONTROL MISSION CONTROL (AIM RANGE)	-		<u> </u>	├ ──	
BC(A)	AREA CONTROL AREA CONTROL (AM ARAGE)	-			ļ	
C2(V)	COORDINATOR/SUPERVISOR (AIR RANGE)					ļ

ATCF EQUIPMENT STANDARD CLASS IIIA

PURPOSE: INFORMATION SOURCES

FUNCTION: DISPLAYS

Enclosure (1) ATTACHMENT C

• REQUIRED

		FLIGHT PROGRESS RECORD	FINGHT PROGRESS DISPLAY
46	FLIGHT DISPATCHER	•	•
(T) 64	ATAG THRLI (R3W0T)	•	•
80	CLEARANCE	•	•
	CERDUND CONTROL	•	•
34 21	PROJECT CONTROL	•	•
C(1)	AGEIVAISURS\AOTAMONOOO		
(8)04	(TOWER) FLIGHT BATA (SCA)	•	•
EC(b)	FIMAL CONTROL FIMAL CONTROL		
(S) 34	(VCTS) EMVF CONLUCT		
(9) NA	JONTNOL CONTROL (500)		
C2(8)	COORDIMATOR/SUPERVISOR		
10 (M)	FLIGHT DATA (Non-Andari) Approach Control	-	
VC (III)	(NON-NAMAR) DEPARTURE CONTROL		
C8(N) DC(N)	(NON-RADA) COORDINATOR/SUPERVISOR (NON-RADAR)		
ED (W)	ATAB TNBLIJ (Magan)		
VC(W)	APPROACH CONTROL (RABAR)		
96(4)	DEPTNOS SATURE CONTROL (Radar)	-†	
(N)RA	ANARAL CONTROL (AADAR)	-†	-
C8(U)	COORDIMATOR/SUPERVISAR (RADAR) FLIGHT DATA	-+	
(V)01	(39474 817) (39474 817)	+	\neg
NC(V)	(AIR RANGE) Arrol Arrol	_+	
(V) DU	(AIM RANGE) COORDIMATOR/SUPERVISOR (AIM RANGE)		

ATCF EQUIPMENT STANDARD CLASS IIIA

PURPOSE: FLIGHT PROGRESS DOCUMENTATION

FUNCTION: RECORD/DISPLAY

Enclosure (1) ATTACHMENT C

• REQUIRED

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KEY:

		SYSTEM	5		FREQUENCY	ENCY					
OPERATING POSITION	PRIMARY	YEGNATE	EMERGENCY	(MA) 7HU	AHE (VW)	AHE (EW)	HE	TIMENAAT	RECEIVE	APPLICATION	REMARKS
Flight Dispatcher	×						×	×	×	Ship-to-Shore	Master ATCOM facilities only
Flight Data (Tower)											No Requirement
Clearance Delivery	×			×				×	×	Clearance Delivery	
Clearance Delivery	×				×			×	×	Clearance Delivery	
Ground Control	×			×				×	×	Ground Control	
Ground Control	×				×			×	×	Ground Control	
Ground Control	×			×				×		ATIS	
Local Control	×			×				×	×	Tower Primary	
Local Control		×		×				×	×	Tower Primary	
Local Control			×	×				×	×	Tower Primary	
Local Control	×				×			×	×	Tower Primary	
Local Control		×			×			×	×	Tower Primary	
Local Control			×		×			×	×	Tower Primary	
Local Control	×			×				×	×	LSO Primary	Facilities supporting FCLP Requirements
Local Control	×			×				×	×	Emergency (243.0)	

ATCF COMMUNICATIONS STANDARD CLASS IIIB

PURPOSE: AIRCRAFT CONTROL

Enclosure (1) ATTACHMENT D

OPNAVINST 3722.35 **2 1 SEP 1988** Class IIIB Equipment Standards

losure	(1)

		SYSTEM			FREQUENCY	IENCY					
OPERATING POSITION	YAAMIAY	YEGNAT2	EWEBGENC	(MA) 7HU	(MA) THY	APE (EW)	HE	TIMENAAT	RECEIVE	APPLICATION	REMARKS
Local Control		×		×				×	×	Emergency (243.0)	
Local Control			×	×				×	×	Emergency (243.0)	
Local Control	×				×			×	×	Emergency (121.5)	
Local Control		×			×			x	×	Emergency (121.5)	
Local Control			×		×			×	×	Emergency (121.5)	
Local Control	×			×				×	×	SAR (282.8)	Facilities supporting defined SAR requirement
Coordinator/Supervi- sor (Tower)	×			×				×	×	Clearance Delivery	
Coordinator/Supervi- sor (Tower)	×				×			×	×	Clearance Delivery	
Coordinator/Supervi- sor (Tower)	×			×				×	×	Ground Control	
<pre>Coordinator/Supervi- sor (Tower)</pre>	×				×			×	×	Ground Control	
Coordinator/Supervi- sor (Tower)	×			×				×	×	Tower Primary	
Coordinator/Supervi- sor (Tower)	×				×			×	×	Tower Primary	
Coordinator/Supervi- sor (Tower)	×			×				×	×	LSO Primary	Facilities supporting FCLP requirements
Coordinator/Supervi- sor (Tower)	×			×				×	×	Emergency (243.0)	
<pre>Coordinator/Supervi- sor (Tower)</pre>	×				×			×	×	Emergency (121.5)	

ATCF COMMUNICATIONS STANDARD d CLASS IIIB

PURPOSE: AIRCRAFT CONTROL-Continued

	5	SYSTEM	_	F.	FREQUENCY	NCY					
OPERATING POSITION	PRIMARY	YEONATS	EWERGENCY	UHF (MM)	(MA) THY	HE AHE (EW)	TIMSNAAT		RECEIVE	APPLICATION	REMARKS
Coordinator/Supervi- sor (Tower)	×			×			×		x SP	SAR (282.8)	Facilities supporting defined SAR requirements
Flight Data (GCA)	×						×		×	Ŋ	No requirement
Final Control (PAR)	×			×			×		ы к	GCA Primary	
Final Control (PAR)	×				×		×		y ×	GCA Primary	
Final Control (PAR)	×			×			×		x AI	Single Frequency A. Approach	All assigned to ATCF
Final Control (PAR)	×			×			×		ي ع	Emergency (243.0)	
Final Control (PAR)	×				×		×		× Er	Emergency (121.5)	
Final Control (ACLS)	×			×				×	× CC	GCA Primary	
Final Control (ACLS)	×			×				×	x X	Single Frequency A Approach	All assigned to ATCF
Final Control (ACLS)	×			×				×	표 ×	Emergency (243.0)	
Arrival Control (GCA)	×			×				×	× C(GCA Primary	
Arrival Control (GCA)	×				×			×	ک ×	GCA Primary	
Arrival Control (GCA)	×			×				×	N A X	Single Frequency Approach	All assigned to ATCF
Arrival Control (GCA)	×			×				×	ख ×	Emergency 243.0	
Arrival Control (GCA)	×				×			×	ଞ ×	Emergency 121.5	

ATCF COMMUNICATIONS STANDARD ad CLASS IIIB

PURPOSE: AIRCRAFT CONTROL -Continued

Enclosure (1) ATTACHMENT D

OPNAVINST 3722.35 **2 1 SEP 1988** Class IIIB Equipment Standards

	REMARKS			assigned to ATCF							
				All ass:							
	APPLICATION	GCA Primary	GCA Primary	Single Frequency Approach	Emergency (243.0)	Emergency (121.5)					
	RECEIVE	×	×	×	×	×		 	 		
	TIMENAAT	×	×	×	×	×					
	HF										
ENCY	AHE (EW)										
FREQUENCY	(MA) THV		×			×					
-	(MA) 7HU	×		×	×						
3	EWERGENCY										
SYSTEM	YEONATZ										
	YAAMIA9	×	×	×	×	×				 	
	OPERATING POSITION	Coordinator/Supervisor (GCA)	Coordinator/Supervisor (GCA)	Coordinator/Supervisor (GCA)	Coordinator/Supervisor (GCA)	Coordinator/Supervisor (GCA)					

ATCF COMMUNICATIONS STANDARD ed Class IIIB

PURPOSE: AIRCRAFT CONTROL-Continued

Enclosure (1) ATTACHMENT D

		SYSTEM			FREQUENCY	ENCY					
OPERATING POSITION	YAAMIA9	VEGNAT2	EMERGENCY	DHE (VW)	VHF (AM)	AHE (EM)	HL	TIMENAAT	RECEIVE	APPLICATION	REMARKS
Flight Dispatcher											No Requirement
Flight Data (Tower)							-				
Clearance Delivery											
Ground Control	×					×	 	×	×	Aircraft Emergency	
Ground Control	×					×		×	×	Fire Emergency	
Ground Control	×					×		×	×	Security	If airport access required by local directive
Ground Control	×					×		×	×	Crew Vehicles	
Local Control						 					No Requirement
Coordinator/Supervisor (Tower)	×					×		×	×	Aircraft Emergency	
Coordinator/Supervisor (Tower)	×					×		×	×	Fire Emergency	
Coordinator/Supervisor (Tower)	×					×		×	×	Security	If airport access required by local directive
Coordinator/Supervisor (Tower)	×					×		×	×	Crew Vehicles	
Flight Data (GCA)											No Requirement
Final Control (PAR)											
Final Control (ACLS)											

ATCF COMMUNICATIONS STANDARD CLASS IIIB

PURPOSE: VEHICLE CONTROL

Enclosure (1) ATTACHMENT D

OPNAVINST 3722.35 **2 1 SEP 1988** Class IIIB Equipment Standards

> REMARKS No Requirement APPLICATION RECEIVE TIMENANT łH FREQUENCY AHE (EW) (MA) THY (MA) THU EMERGENCY **SYSTEM** VEGNAT2 **YAAMIA**9 Coordinator/Supervisor (GCA) Arrival Control (GCA) **OPERATING POSITION**

ATCF COMMUNICATIONS STANDARD CLASS IIIB

PURPOSE: VEHICLE CONTROL - Continued

Enclosure (1) ATTACHMENT D

		CONTROL TOWERS WITHIN ATCF AMSPACE	CONTROL TOWERS WITHIN SECTOR AMSPACE	AMPOATS AT WHICH LOCAL FLIGHTS MAY TEMMINATE WITHOUT FRING DO-75	APPROACH CONTROL FACHITIES Abjoning Atcf Airspace	APPROACH CONTROL FACHITHES AD JONNING SECTOR AMSPACE	ARTCC: SERVING ATCF AIRSPACE	ARTCC: SERVING SECTOR AIRSPACE	ROCs WITH WHICH ATCF MAS Handoff Acsponsibilities	ROCI WITH WHICH SECTOR MAS MANDOFF RESPONSIBILITIES	FACSFACS WITH WHICH ATCF NAS NAMDOFF RESPONSIONITIES	FACSFACs WITH WHICH SECTOR MAS MANDOFF RESPONSION[THES	FLIGMI SERVICE STATION SERVING PRIMARY AMPORT	FLIGMT SERVICE/STATION SERVING SATELLITE AIRNOATS	SAR AGEMCY Lif Station or temant part of Bational Sar Plan)	KEY
46	N3NDTA9810 TN8L13			•			٠						•		•	
(T) 01	FLIGHT BATA (TOWER)	•		•	•		•								•	
CD CD	DEFINERA Crevevince															
28	TOULNES ONACUS															İ
วา	LOCAL CONTROL	•			•											
24	PROJECT CONTROL															1
(L)SO	(LOMEV) Coolonvlov/Sreenizou	•		•	•	<u>†</u>	•		1	İ					•	1
(9)63	FLIGHT BATA	•.			•		•		•		•	<u> </u>			•	1
(d) 34	LINF COMLUG															1
FC (S)						<u> </u>				<u> </u>		-	-			
(5) 27		•							<u> </u>							ļ
(3)(2)	FLIGHT BATA (GCA)	•			•	<u> </u>										
(11) @j	VLUOVCH CONLUDE (UON-WYDY)						-									
(11) 34	DELVULNUE CONLUDE (NOR-UVDVU)															-
(N) 20	COOLOWATOA/SUPERVISOR (NON-AADA/)	-			ļ											-
	(RAGAR-NGU) ATAQ THRU?	<u> </u>					-								ļ	4
VC(U)	(BABAR) APPROACH CONTROL (RADAR)						-									
	BEPARTNAE CONTROL		L						ļ						ļ	
(8)84	ARRIVAL CONTROL (RABAR)															
(4)80	(RABAR) Coordimator/Supervisor]
(V) 64	ATAG THRUJA (304AR MA)	Î				Î	Î				Ì		İ		1	1
(V) 300	{VILL AVANCE}}	1			<u> </u>		İ		1							1
(V) DU	AREA CONTROL (AM RANGE)			1					1				1			1
(V)53	(AM NANGE) Coordimator/Supervisor													-		

ATCF COMMUNICATIONS STANDARD ATCF CLASS IIIB

PURPOSE: INTERFACILITY COORDINATION FUNCTION: EXTERIOR LINES

> Enclosure (1) ATTACHMENT D

OPNAVINST 3722.35 **2 1 SEP 1988** Class IIIB Equipment Standards

TION: INTERIOR LINKS		1	10	3	3	9	2	CSIT	19(2)	FC (9)	LC (S)	AA(G)	C 8 (6)		AC (N)	ec (M)			AC (N)	9C (W)	A.R.(R)	C 8 (III)	4	MC(A)	AC LA	CS(A)		Ľ	V
		FLIGHT BISPATCHER	FLEHT DATA (TOWER)	CLEARANCE DELIVERY	GROUND CONTROL	LDCAL CONTROL	PROJECT CONTROL	COORDINATOR/SUPERVISOR (TOWER)	FLIGHT BATA (SCA)	FIMAL CONTROL (FAM)	FMAL CONTROL (ACLS)	ANRIVAL CONTROL (SCA)	COORDINATOR/SUPERVISOR (SCA)	FLIGHT DATA (NON-RADAR)	APPRACH CONTROL (BOH AABAR)	BEPARTURE CONTROL (NOU-RABAR)	CORDMATOR/SUPERVISOR (NON-RADAR)	FLIGHT BATA (RADAR)	APPROACH CONTROL (Radar)	DEPARTURE CONTROL (RADAR)	AARIVAL CONTROL (Radar)	COORDINATOR/SUPERVISOR (RADAR)	FLIGHT BATA (AMR RANGE)	MISSION CONTROL (AM RANGE)	AREA CONTROL (AM RANGE)	CDDRBMATOR/SUPERVISOR (AIR RANGE)	WEATNER SERVICE	TRANSKEIT Line	AIR TERMINAL
FLIGHT DISPATCHER	OP		•					•	•																		•	•	
FLIGHT DATA (TOWER)	FD(T)	•		•	•	•		٠	•																		•	•	
CLEARANCE DELIVERY	C8		•			•		•																					
CROUNS CONTROL	60		•			•		٠																					
	LC		•	•	•			•	•	•	•	•	•										l						L
PROJECT CONTROL	PC																												
COORDINATOR/SUPERVISOR (TOWER)	CS(T)	•	•	•	•	•			•	•	•	•	•														٠	٠	'
FLIGHT DATA (GCA)	F0 (6)	•	•			•		٠		•	•	•	•														•		
FINAL CONTROL (PAR)	FC(P)					•		٠	•		•	•	•																
FINAL CONTROL (ACLS)	FC(S)					•		٠	•	•		٠	•												-				
ARRIVAL CONTROL (GCA)	AR (C)					٠		•	•	•	٠		•																
COORDINATOR/SUPERVISOR (GCA)	C\$(6)					•		٠	٠	•	٠	٠															•		
FLIGHT DATA (NON-RABAR)	FD (N)																												
APPROACH CONTROL (NON-RABAR)	AC(N)																												L
DEPARTURE CONTROL (NON-RABAR)	DC (N)																						 			[• • • • •			
COORDINATOR/SUPERVISOR (NON-RADAR)	CS(N)																												
FLIGHT DATA	FD(A)																												
APPROACH CONTROL (RADAR)	AC(R)																												
DEPARTURE CONTROL (RADAR)	BC(R)		 																		 								L
ARRIVAL CONTROL (RADAR)	AR (R)																						ļ						
COORDINATOR/SUPERVISOR (RADAR)	CS(A)																									 			Ļ_
FLIGHT DATA (AIR RANGE)	FD(A)																								_	, 			
MISSION CONTROL (AIR RANGE)	MC(A)	L	 																							+			_
AREA CONTROL (AIR RANGE)	RC(A)	ļ	 																		•								Ļ
COORDHATOR/SUPERVISOR (AIR RANGE)	CSIA																												L.
WEATHER SERVICE	WX	•	•					•	٠				•													ļ			L
TRANSIENT LINE	π	•	•					٠																					Ļ_
AIR TERMINAL	AT	<u>'</u>	'					1															L			İ.			

ATCF COMMUNICATIONS STANDARD ATCF CLASS IIIB

		AIRCRAFT LOCATION	AIRCRAFT IDENTIFICATION	AIRCRAFT POSITIONING
46	RENEATEMER			
(1)64	ATAG THEN (TOWER)			
63	DELIVERY CLEARANCE			
38	eronro control			
วา	LOCAL CONTROL	<u> </u>		
34				
(1)\$9	(LOWER) (TOWER) COORDINATOR/SUPERVISOR	-		
(3)64	FLIGHT BATA (SCA)			
(d) 34	FINAL CONTROL	•	•	•
(S)))		•	•	•
(3) 24	COORDINATOR/SUPERVISOR (GCA)	•	•	
(8)80	FLIGHT DATA			
	VERGACH CONTROL			
(II) JU (II)	DELVERTONS)			
C2(III) C2(III)	(NON-VODVE) COOUDHIVLOU\SINLEUAIEOU (NON-VVDVE)			
60(W)	ATAR TRAUT	<u> </u>		
(U) 3V	VERDAR)			
DC (U)	(RADAR) DEPARTURE CONTROL			
(2)24	ARRIVAL CONTROL (RADAR)			
(¥)\$3	(RAPAR) COORDINATOR/BUTERVISOR			•
(V)44	ATAG THRIJ (380AR Ria)			
MC (V)	(VIL LYNGE) WI22ION CONLING			
(V) DN	AREA CONTROL (AIM RANGE)			

ATCF EQUIPMENT STANDARD CLASS 1118

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PUNPOSE: AIRCRAFT CONTROL

FUNCTION: DISPLAYS

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Enclosure (1) ATTACHMENT D

• REQUIRED

KEY:

		BAROMETRIC PRESSURE	TIME	WINDSPEED AND DIRECTION	WEATHER
40	FLIGHT DISPATCHER		•	•	•
(1)03	ATA DATA (TOWER)		•		
63	DEFINERA Crevitvince		•		
38	CROUND CONTROL	•	•	•	•
ກ .	LOCAL CONTROL	•	•	•	•
	PROJECT CONTROL	+	ŀ	+	+
(L) 5 0	FLIGHT DATA	-		-	•
(9) C±	EINAL CONTROL			•	
(4)))	ENNAL CONTROL	_	<u> </u>	•	
(5)04	(ACLS) ARRIVAL CONTROL (SCA)	•	•	•	•
(9)80 (9)80	COORDMATOR/SUPERVISA	<u> </u>	•	ļ.,	•
(N) C1	ATAG TNBI14 (AAGAA-NON)				
VC(N)	JORTROL CONTROL (Ragan-Now)				
DC(N)	DEPARTURE CONTROL (NON-RABAR)	+		1	
C2(III)	COORDIMATOR/SUPERVISOR (NON-MADAR)	+			
(W) @J	ATAG TNBLIF (AAAAA)	╉	+	+	
(W) 3V	DEPARDACH CONTROL (MADAR) DEPARTURE CONTROL		+		
(1))))	ARRIVAL CONTROL				
(8)84	(UVDVV) COOUDINATOA/SUPERVISOA (AADAA)	+			
LD (V)	ATAG THOLIA (30MAR MIA)				
	MISSION CONTROL MISSION CONTROL AM AANGE)				
(V) DU	AREA CONTROL (AIR RANGE)				
CS(V)	COORDINATOR/SUPERVISON (Aim Range)				

ATCF EQUIPMENT STANDARD CLASS IIIB

PURPOSE: INFORMATION SOURCES

FUNCTION: DISPLAYS

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• REQUIRED

KEY:

Enclosure (1) ATTACHMENT D

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I.

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40 40 40 40 40 40 40 40 40 40	ICCY) COONDINATORALENTEDR ICCA IC	FLIGHT PROGRESS RECORD • • • •	FLIGHT PROGRESS DISPLAY • • • • •
VC (II) ED (II)	ATAT DATA (RAQAR-NOW) (RAQAR-NOW) (RAQAR-NOW) (RAQAR-NOW)		
C8(II) DC(II)	CONTROL CONTROL (NON-ADAR) (NON-ADAR) (NON-ADAR) (NON-ADAR)		
40 (U) 40 (U)	FLENT DATA (MADAR) APPROACH CONTROL (MADAR)		
96(8)	DEPARTURE CONTROL (RADAR) AMRIVAL CONTROL		
CB(B)	(AADAR) COORDINATOR/SUPERVISOR (AADAR)		
(V) C1	ATA BATA (AIM RANGE) (AIM RANGE)		
(V) 3 M	MISSION CONTROL (AIR RANGE)	1	
(V) DU	AREA CONTROL (AIR RANGE)		

ATCF EQUIPMENT STANDARD CLASS 1118

PURPOSE: FLIGHT PROGRESS BOCUMENTATION

FUNCTION: RECORD/DISPLAY

Enclosure (1) ATTACHMENT D

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OPNAVINSI 3722.35 **2 I SEP 1988** Class IIIB Equipment Standards

• REQUIRED

KEY:

		SYSTEIM	5		FREQUENCY	ENCY					
OFERATING POSITION	YAAMIA9	YEQNAT2	EWERGENCY	(MA) 3HU	VHF (AM)	AHE (EW)	HF	TIMENAAT	RECEIVE	APPLICATION	REMARKS
Flight Dispatcher	×						×	×	x x	Ship-to-Shore	Master ATCOM facilities only
Flight Data (Tower)											No Requirement
Clearance Delivery	×			×			· ·	×	×	Clearance Delivery	
Clearance Delivery	×				×			×	×	Clearance Delivery	
Ground Control	×			×				×	×	Ground Control	
Ground Control	×				×			×	×	Ground Control	
Ground Control	×			×				×		ATIS	
Local Control	×			×				×	×	Tower Primary	
Local Control		×		×				×	x T	Tower Primary	
Local Control			×	×				×	хI	Tower Primary	
Local Control	×				×			×	×	Tower Primary	
Local Control		×			×			×	F ×	Tower Primary .	
Local Control			×		×			×	T X	Tower Primary	
Local Control	×			×				×	×	LSO Primary	Facilities supporting FCLP requirements
Local Control	×			×				×	×	Emergency (243.0)	

ATCF COMMUNICATIONS STANDARD CLASS IVA

.

PURPOSE: AIRCRAFT CONTROL

Enclosure (1) ATTACHMENT E

E-1

	-	SVSTEM	5		FREQUENCY	ENCY					
OF ERATING POSITION	YAAMIA9	YEGMATE	EMERGENCY	NHE (VW)	AHE (VIN)	AHE (EM)	HF	TIMENANT	RECEINE	APPLICATION	REMARKS
Local Control		×		×		 		×	×	Emergency (243.0)	
Local Control			×	×				×	×	Emergency (243.0)	
Local Control	×				×			×	×	Emergency (121.5)	
Local Control ·		×			×			×	×	Emergency (121.5)	
Local Control			×		×			×	×	Emergency (121.5)	
Local Control	×			×				×	×	SAR (282.8)	Facilities supporting defined SAR requirements
Coordinator/Supervisor (Tower)	×				×			×	×	Clearance Delivery	
Coordinator/Supervisor (Tower)	×			×					×	Clearance Delivery	
Coordinator/Supervisor (Tower)	×				×			×	×	Ground Control	
Coordinator/Supervisor (Tower)	×			×				×	×	Ground Control	
Coordinator/Supervisor (Tower)	×			×				×	×	Tower Primary	
Coordinator/Supervisor (Tower)	×				×			×	×	Tower Primary	
Coordinator/Supervisor (Tower)	×			×				×	×	LSO Primary	Facilities supporting defined SAR requirements
Coordinator/Supervisor (Tower)	×			×				×	×	Emergency (243.0)	
Coordinator/Supervisor (Tower)	×				×			×	×	Emergency (121.5)	
Coordinator/Supervisor (Tower)	,			,				,	1	SAR (282.8)	Facilities supporting FCLP requirements
		ł									

ATCF COMMUNICATIONS STANDARD CLASS IVA

PURPOSE: AIRCRAFT CONTROL -Continued

Enclosure (1) ATTACHMENT E

E-2

	-	SYSTEM	3		FREQUENCY	ENCY				<u> </u>		
OFERATING POSITION	YAAMIA9	YEGNATE	EMERGENCY	(MA) 7HU	AHE (VW)	AHE (EN)	HF	TIMENAAT	RECEIVE	APPLICATION	nemarks	
Flight Data (GCA)									·		No Requirement (Note 1)	
Final Control (PAR)	×			×				×	×	GCA Primary	(Note 1)	_
Final Control (PAR)	×				×			×	×	GCA Primary	(Note 1)	
Final Control (PAR)	×			×				×	×	Single Frequency Approach	All assigned to ATCF (Note 1)	
Final Control (PAR)	×			×				×	×	Emergency (243.0)	(Note 1)	- T
Final Control (PAR)	×				×			×	×	Emergency (121.5)	(Note 1)	T
Final Control (ACLS)	×			×				×	×	GCA Primary	(Note 1)	
Final Control (ACLS)	×			×				×	×	Single Frequency Approach	All assigned to ATCF (Note 1)	1
Final Control (ACLS)	×			×				×	×	Emergency (243.0)	(Note 1)	1
Arrival Control (GCA)	×			×				×	×	GCA Primary	(Note 1)	
Arrival Control (GCA)	×				×			×	×	GCA Primary	(Note 1)	
Arrival Control (GCA)	×			×				×	×	Single Frequency Approach	All assigned to ATCF (Note 1)	
Arrival Control (GCA)	×			×				×	x	Emergency (243.0) .	(Note 1)	
Arrival Control (GCA)	×				×			×	×	Emergency (121.5)	(Note 1)	
Coordinator/Supervisor (GCA)	×			×				×	×	GCA Primary	(Note 1)	
Note 1: If Low Approach and Landing Service incorporated	oroad	ch ar	nd Lá	ibue	ng Si	ervio	ы Кар	ncor	pora	ited		

ATCF COMINUNICATIONIS STANDARD CLASS IVA

PURPOSE: AIRCRAFT CONTROL - Continued

E-3

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		SYSTEM	3		FREQUENCY	ENCY						
OPERATING POSITION	YAAMINY	YEGNATE	EMERGENCY	(WV) JHO	AHE (VW)	AHE (EM)	NE	TIMENANT	RECEIVE	APPLICATION	REMARKS	
Coordinator/Supervisor (GCA)	×				×			×	×	GCA Primary	(Note 1)	T
Coordinator/Supervisor (GCA)	×			×				×	×	Single Frequency Approach	All assigned to ATCF (Note 1)	1
Coordinator/Supervisor (GCA)	×			×				×	×	Emergency (243.0)	(Note 1)	T
Coordinator/Supervisor (GCA)	×				×			×	×	Emergency (121.5)	(Note 1)	<u> </u>
Flight Data (Non-Radar)											No Requirement	1
Approach Control (Non-Radar)	×			×				×	×	Approach Sector Primary		1
Approach Control (Non-Radar)		×		×				×	×	Approach Sector Primary		1
Approach Control (Non-Radar)	×				×			×	×	Approach Sector Primary		7
Approach Control (Non-Radar)		×			×			×	×	Approach Sector Primary		· · · · · ·
Approach Control (Non-Radar)	×			×				×	×	Approach Sector Secondary	Multi-Sector facilities use other approach sector primary	,
Approach Control (Non-Radar)	×				×			×	×	Approach Sector Secondary		
Approach Control (Non-Radar)	×			×				×	×	Single Frequency Approach	All assigned to ATCF (Note 1)	<u> </u>
Approach Control (Non-Radar)	×			×				×	×	Emergency (243.0)		·····
Approach Control (Non-Radar)		×		×				×	×	Emergency (243.0)	(Note 2)	
Approach Control (Non-Radar)	×				×			×	×	Emergency (121.5)		
Note 1: If Low Approach and Landing Service incorporated	proa	ch a	nd L	i pue,	ng S	ervi	Ce	ncor	por	ated		•

If Low Approach and Landing Service incorporated ~

If Terminal Area Control Service not located in tower cab

OPNAVINST 3722.35 2 1 SEP 1988 Class IVA Equipment Standards

ATCF COMMUNICATIONS STANDARD a CLASS IVA

PURPOSE: AIRCRAFT CONTROL -Continued

	*	SYSTEM	=	_	FREQUENCY	ENCY						
OF ERATING POSITION	YAAMIA9	YEGNATS	EMERGENCY	(MA) 7HU	(NIA) THY	AHE (EM)	HE	TIMENAAT	VECEIAE	APPLICATION	REMARKS	
Approach Control (Non-Radar)		×			×			×	×	Emergency (121.5)	(Note 2)	
Approach Control (Non-Radar)	×			×				×	×	SAR (282.8)	Facilities supporting defined SAR requirement (Note 2)	
Departure Control (Non-Radar)	×			×				×	×	Departure Sector Primary		
Departure Control (Non-Radar)		×		×				×	×	Departure Sector Primary		
Departure Control (Non-Radar)	×				×			×	×	Departure Sector Primary		
Departure Control (Non-Radar)		×			×			×	×	Departure Sector Primary		
Departure Control (Non-Radar)	×			×				×	×	Departure Sector Secondary	Multi-Sector facilities use other departure sector primary	
Departure Control (Non-Radar)	×				×			×	×	Departure Sector Secondary		
Departure Control (Non-Radar)	×			×				×	×	Emergency (243.0)		
Departure Control (Non-Radar)	×				×			×	×	Emergency (121.5)		
Coordinator/Supervisor (Non-Radar)	×			×				×	×			
Coordinator/Supervisor (Non-Radar)	×			 	×			×	×	Approach Sector Primary		
Coordinator/Supervisor (Non-Radar)	×			×				×	×	Approach Sector Secondary		
Coordinator/Supervisor (Non-Radar)	×				×			×	×	Approach Sector Secondary		I
Coordinator/Supervisor (Non-Radar)	×			×				×	×	Single Frequency Approach	All assigned to ATCF (Note 1)	
Note 1: If Low App 2: If Termina	proa al A	ch a rea	Conf	Land	ing ' Ser'	serv.	lice	inco loc	rpor ated	Low Approach and Landing Service incorporated Terminal Area Control Service not located in tower cab		

ATCF COMIMUNICATIONIS STANDARD CLASS IVA

PURPOSE: AIRCRAFT CONTROL-Continued

OPNAVINST 3722.35 2 1 SEP 1988 Class IVA Equipment Standards

SYSTEM
FREG
FREQUENCY

ATCF COMMUNICATIONS STANDARD d CLASS IVA

stochaen common - Continued PHEPASE.

If Low Approach and Landing Service incorporated If Terminal Area Control Service not located in tower cab Note l: 2:

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		SYSTEM			FREQUENCY	ENCY.		\square			
OPERATING POSITION	YAAMIA9	STANDBY	EMERGENCY	(MA) THU	AHE (VW)	AHE (EW)	MF	TIMENAAT	BECEINE	APPLICATION	REMARKS
Flight Dispatcher											No Requirement
Flight Data (Tower)											
Clearance Delivery											
Ground Control	×					×		×	×	Aircraft Emergency	
Ground Control	×					×		×	×	Fire Emergency	
Ground Control	×					×		×	×	Security	If airport access required by local directive
Ground Control	×					×		×	×	Crew Vehicles	
Local Control											No requirement
Coordinator/Supervisor (Tower)	×					×		×	×	Aircraft Emergency	
Coordinator/Supervisor (Tower)	×					×		×	×	Fire Emergency	
Coordinator/Supervisor (Tower)	×					×		×	×	Security	If airport access required by local directive
Coordinator/Supervisor (Tower)	×					×		×	×	Crew Vehicles	If airport access required by local directive
Flight Data (GCA)											No requirement (Note 1)
Final Control (PAR)											
Final Control (ACLS)											
Note 1: If Low Approach and Landing Service incorporated	proa	ch a	I pu	and	s bu	ervi	e	inco	rpol	rated	

ATCF COMMUNICATIONS STANDARD CLASS IVA

PURPOSE: VEHICLE CONTROL

Enclosure (1) ATTACHMENT E

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OPNAVINST 3722.35 **2 1 SEP 1988** Class IVA Equipment Standards

No Requirement (Note 1) REMARKS ATCF COMMUNICATIONS STANDARD CLASS IVA APPLICATION BECEINE TIMENAAT ЯH FREQUENCY AHE (EW) (MIV) JHA VEHICLE CONTROL - Continued (MA) THU EMERGENCY **SYSTEM** YAGNATZ **YAAMIA**9 Flight Data (Non-Radar) Coordinator/Supervisor (Non-Radar) Coordinator/Supervisor (GCA) Arrival Control (GCA) Departure Control (Non-Radar) Approach Control (Non-Radar) OPERATING POSITION PURPOSE:

Note 1: If Low Approach and Landing Service incorporated

OPNAVINST 3722.35 2 1 SEP 1988

Class IVA Equipment Standards

440 I

		CONTROL TOWERS WITHIN ATCF AMSPACE	CONTROL TOWERS WITHIN SECTOR AARSPA	AMPORTS AT WHICH LOCAL FLIGHTS MAY TERMINATE WITHOUT FLING 00-75	APPRAACH CONTRAL FACHITIES Allonnies atcf Anspace	APPRAACH CONTROL FACHITHES Al JOHNING SECTOR AMSPACE	ARTCC: SERVING ATCF AMSPACE	ANTCC: SERVING SECTOR AMSPACE	Rocs With WINCH ATCF HAS Handoff Responsionlings	noci with which becton has habbolf responsibilities	FACSFACa WITH WHICH ATCF HAS HAMDOFF AESPONSIONITIES	FACSFACS WITH WINCH SECTOR MAS NAMOOFF RESPONSIONITIES	FLIGHT SERVICE STATION SERVING PRIMARY AMPONT	FLIGHT BERVICE STATION SERVING Satellite Amponts	SAR AGEMCY (F STATION OR TEMANT PART OF NATIONAL SAR PLAN)
48	FLIGHT DISPACE		. WE	•			•						•	•	•
(T) G Ŧ	ATAD THOUT (M3WDT)	•	<u> </u>	•	•		•		•	•	•				•
CD	CLEARANCE DELIVERY														
29	BRONND CONTROL		†												
34 	LOCAL CONTROL	•													
C28(1)	COORDHIATOR/SUPERVISOR	•	 	•	•		•		•						•
(3)6j	(N3WGT) Atag their (A38)	-			-		-		-		-				-
EC(b)	FINAL CONTROL FINAL CONTROL (PAR)	ļ													
(S) 34	(VCC2) LINY COULUS														
(3)84	JONTNOL CONTROL (ACA)	-			-										
(5)80	(BCV) COOVDINVLOV\SINEVAISOU	-			•										
(N) Gd	ATAQ THOUT (RAGAT-NON)	•	•				•	•	•	•	٠	•			•
(N) JY	APPRACEN CONTROL (NON-ARANG) DEPANTURE CONTROL	•	•				•	•	•	•	•	•			
DC (III)		•					•	•	•	•	•	•			
C2(0)	(AAGAA-NGM) Atag theles	-							•	•	•	•			
(8)34	APPROACH CONTROL							-							
9C(U)	(RADAR) DEPARTURE CONTROL (RADAR)														
(8)84	ANNAL CONTROL (MAGAN)														
C2(U)	NOSIYA 3442 NOTAN DAGA (AAGAA)														
(A) 01	ATAG THOLI (30MAR MA)														
(V) 3 M	MISSION CONTROL (AM RANGE)														
RC(A)	JOHTHO A3MA (30MAR MA)														
CS(A)	COORDINATOR/SUPERVISOR (AM RANGE)														

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PURPOSE: INTERFACILITY COORDINATION FUNCTION: EXTERIOR LINES

> Enclosure (1) ATTACHMENT E

KEY

o Algumes & Low Appagen And Landing Servee Incorporaties 1 Algumes & Low Appagen And Landing Servee Incorporaties

#### ATCF COMMUNICATIONS STANDARD ATCF CLASS IVA

| TION: INTERIOR LINKS                  |        | 5                 | (1)O                  | 8                     | 3              | 2             | 2               | C 2(1)                            | (j)<br>4             | 100                   | FC(\$)                  | ARIG                     | C3 (C)                         | 10,                        | AC (N)                          | BC (#)                           | C\$(#)                                  | F0(A)                  | AC (A)                      | 9C (R)                       | AA(I)                     | CS (B)                            | F8(A)                    | MC(A)                         | RC(A)                      | CS(A)                  | T.M.     | =                   |   |
|---------------------------------------|--------|-------------------|-----------------------|-----------------------|----------------|---------------|-----------------|-----------------------------------|----------------------|-----------------------|-------------------------|--------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------------|-----------------------------------------|------------------------|-----------------------------|------------------------------|---------------------------|-----------------------------------|--------------------------|-------------------------------|----------------------------|------------------------|----------|---------------------|---|
|                                       |        | FLIGHT DISPATCHER | FIGHE BATA<br>(TOWER) | CLEARANCE<br>DELIVERY | GROUND CONTROL | LOCAL CONTROL | PROJECT CONTROL | COORDINATOR/SUPERVISOR<br>(TOWER) | fLIGMT DATA<br>(GCA) | FMAL CONTROL<br>(PAR) | FINAL CONTROL<br>(ACLS) | ARRIVAL CONTROL<br>(SCA) | COORDWATOR/SUPERVISOR<br>(GCA) | FLIGHT DATA<br>(NON-RADAR) | APPROACH CONTROL<br>(NON-RADAR) | DEPARTURE CONTROL<br>(NON RADAR) | COORDINATOR/SUPERVISOR<br>(NON AABAR) . | ILIGHT DATA<br>(RADAR) | APPROACH CONTROL<br>(RADAR) | BEPARTURE CONTROL<br>(RADAR) | ARMVAL CONTROL<br>(RADAR) | COORDIMATOR/SUPERVISOR<br>(RADAR) | FLENT DATA<br>(AM RANGE) | MISSION CONTROL<br>(AM RANGE) | AREA CONTROL<br>(AM RANGE) | COORDINATOR/SUPERVISOR | WEATHER  | In Ansien T<br>Line |   |
|                                       | DP     |                   | •                     |                       |                |               | <u> </u>        | •                                 | 3                    |                       |                         |                          |                                |                            | -                               |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        | •        | •                   | Ì |
| FLIGHT BATA<br>(TOWER)                | FO(T)  | •                 |                       | •                     | •              | •             |                 | •                                 | 3                    |                       |                         |                          |                                | 2                          | •                               | •                                | •                                       |                        |                             |                              |                           |                                   |                          |                               |                            |                        | •        | •                   |   |
| CLEARANCE<br>BELIVERY                 | CD     |                   | •                     |                       |                | •             |                 | ٠                                 |                      |                       |                         |                          |                                | 2                          |                                 | •                                |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     |   |
| GROUND CONTROL                        | 50     |                   | •                     |                       |                | •             |                 | •                                 |                      |                       |                         |                          |                                |                            | -                               | 1                                |                                         |                        |                             |                              |                           |                                   | 1                        | 1                             |                            |                        |          |                     | Ī |
| LOCAL CONTROL                         | ις     |                   | •                     | •                     | •              |               |                 | •                                 | 3                    | 3                     | 3                       | 3                        |                                |                            | •                               | •                                | 2                                       |                        |                             |                              |                           |                                   |                          | [                             |                            |                        |          |                     | Ţ |
| PROJECT CONTROL                       | PC     |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     |   |
| COORDINATOR/SUPERVISOR<br>(TOWER)     | C\$(T) | •                 | •                     | •                     | •              | •             |                 |                                   | 3                    | 1                     | 3                       | 3                        |                                | 2                          | •                               | •                                | 2                                       |                        |                             |                              |                           |                                   |                          |                               |                            |                        | •        | •                   | ſ |
| FLIENT BATA<br>(SCA)                  | F0(G)  | 3                 | J                     |                       |                | ,             |                 | 3                                 |                      | t                     | 3                       | 3                        |                                | 3                          | 3                               |                                  | 3                                       |                        |                             |                              |                           |                                   |                          |                               |                            |                        | 3        |                     |   |
| FILAL CONTROL<br>(PAR)                | FC(P)  |                   |                       |                       |                | 3             |                 | 3                                 | J                    |                       | 3                       | 3                        |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               | <br>                       |                        |          |                     | I |
| FINAL CONTROL<br>(ACLS)               | FC (8) |                   |                       |                       |                | 3             |                 | 3                                 | 3                    | 3                     |                         | 3                        | 1                              |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        | <u> </u> |                     |   |
| ARRIVAL CONTROL<br>(SCA)              | AR(E)  |                   |                       |                       |                | 3             |                 | 3                                 | 3                    | 3                     | 3                       |                          |                                |                            | 3                               |                                  | 2.3                                     |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     | ĺ |
| COORDINATOR/SUPERVISOR<br>(SCA)       | C\$(6) |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     |   |
| FLIGHT BATA<br>(NON-RABAR)            | FD (N) |                   | 2                     | 2                     |                |               |                 | 2                                 | 3                    |                       | ĺ                       |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          | <u> </u>                      |                            |                        |          |                     |   |
| APPREACH CONTROL<br>(NON-RABAR)       | AC (B) |                   | •                     |                       |                | •             |                 | •                                 | 3                    |                       |                         | ,                        |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        | ļ        |                     |   |
| DEPARTURE CONTROL<br>(NON-RABAR)      | DC (N) |                   | •                     | •                     |                | •             |                 | •                                 |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             | L.                           |                           |                                   |                          |                               |                            | ļ                      | <br>     |                     |   |
| COGROMATOR/SUPERVISOA<br>(NON-RAGAR)  | CS(N)  |                   | •                     | }                     |                | 2             |                 | 2                                 | 3                    |                       |                         | 2.3                      |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        | !        |                     |   |
| FLIGHT DATA<br>(RABAR)                | FD(R)  |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     |   |
| APPROACH CONTROL<br>(RABAR)           | AC (8) |                   |                       | 1                     |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     | - |
| DEPARTURE CONTROL<br>(RABAR)          | DC (R) |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        | -        | `.<br>•             |   |
| ARRIVAL CONTROL<br>(RABAR)            | AR(R)  |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           | }                                 |                          | L                             |                            |                        |          |                     |   |
| COORDINATOR/SUPERVISOR<br>(RABAR)     | CS(R)  |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     | Ì |
| FLIENT BATA<br>(AIR RANGE)            | FD(A)  |                   |                       |                       |                |               |                 |                                   |                      | ļ                     |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           | Ì                                 |                          |                               | -                          |                        |          |                     | - |
| MISSION CONTROL<br>(AM RANGE)         | NC(A)  |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     | Ì |
| AREA CONTROL<br>(AIR RANGE)           | RC (A) |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            | !<br>                  |          |                     | ſ |
| COORDINATOR/SUPERVISOR<br>(AIR RANGE) | CB(A)  |                   |                       |                       |                |               |                 |                                   |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        | 1        |                     | ; |
| WEATHER<br>SERVICE                    | WX     | •                 | •                     |                       |                |               |                 | •                                 | 3                    |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        | -        |                     |   |
| TRANSIENT<br>LINE                     | τι     | •                 | •                     |                       |                |               |                 | •                                 |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     |   |
| AIR TERMINAL                          | AT     | 1                 | 1                     |                       |                |               |                 | 1                                 |                      |                       |                         |                          |                                |                            |                                 |                                  |                                         |                        |                             |                              |                           |                                   |                          |                               |                            |                        |          |                     | T |

RESUMPED IF AND TERMINIAL INCOMPORATED
 RESUMPED IF AND TERMINIAL INCOMPORATED
 RESUMPED IF TERMINIAL IFR SERVICE INFO PROVIDED FROM TOWER CAR
 RESUMPED IF LOW APPRACH AND LANDING SERVICE PROVIDED

Enclosure (1) ATTACHMENT E

1

|                |                                                 | ARCRAFT LOCATION | AIRCRAFT IDENTIFICATION | AIRCRAFT POSITIONING |
|----------------|-------------------------------------------------|------------------|-------------------------|----------------------|
| 90             | FLIGHT DISPATCHER                               |                  |                         |                      |
| (1)01          | ATGHT DATA<br>(TOWER)                           |                  |                         |                      |
| CD             | DEFIAEWA<br>CTEVNVNCE                           |                  |                         |                      |
| 29             | CONTROL                                         |                  |                         |                      |
| วา             | LOCAL CONTROL                                   |                  |                         |                      |
| <br>Jd         |                                                 |                  |                         |                      |
| (L)\$9         | COORDMATOR/SUPERVISOR<br>(TOWER)<br>FLIGHT DATA |                  |                         |                      |
| (3) 01         | FINAL CONTROL                                   |                  |                         |                      |
| EC(b)          | FIRAL CONTROL                                   | -                | •                       | -                    |
| (S) 04         | VIULANT CONLINGT<br>(VCT2)                      | -                | •                       |                      |
| (3)33<br>(3)53 | (BCA)<br>COORDIMATOR/SUPERVISOR<br>(CCA)        |                  |                         |                      |
| ED (N)         | TUDATON (NON-ATADAT)                            |                  |                         |                      |
| VC (M)         | J <b>GRTNO</b> Z NJAONTAA<br>(Aadan-ngu)        |                  |                         |                      |
| DC(R)          | DEPARTURE CONTROL<br>(NON-RADAR)                |                  |                         |                      |
| (N)\$3         | (NON-UVDVE)<br>COOVDINATOR/SUFERVISOR           |                  |                         |                      |
| (W) @J         | ATAG THRUT<br>(AAGAN)                           |                  |                         |                      |
| VC(B)          | DEPARTURE CONTROL<br>(RADAR)                    |                  |                         |                      |
| (2)34          | (RADAR)                                         |                  |                         |                      |
| (1)14          | COOKDINVLOUNSREEKAIZOU<br>(EVDVE)               |                  |                         |                      |
| C2(U)          | (AAGAA)<br>ATAG TNOLIT                          |                  |                         |                      |
| HC(V)          | (VW WVNCE)<br>WIZZION CONLKOF<br>(VW WVNCE)     |                  |                         |                      |
| (V) 31         | AREA CONTROL<br>(AM RANGE)                      |                  |                         |                      |
| CS(V)          | COORDINATOR/SUPERVISOR<br>(AIR RANGE)           |                  |                         |                      |

ATCF EQUIPMENT STANDARD CLASS IVA

PURPOSE: AIRCRAFT CONTROL

FUNCTION: DISPLAYS

• REQUIRED

KEY:

ATCF EQUIPMENT \$TANDARD CLASS IVA

PURPOSE: INFORMATION SOURCES

Enclosure (1) ATTACHMENT E FUNCTION: DISPLAYS

E-12

• REQUIRED I REQUIRED IF LOW APPROACH AND LANDING SERVICE INCORPORATED

-

REQUIRED IF LOW APPROACH AND LANDING SERVICE INCORPORATED

KEY:

FLIGHT PROGRESS RECORD FLIGHT PROGRESS DISPLAY

| C3(V)    | COORDINATOR/SUPERVISOR<br>(AIR RANGE)   |          |   |
|----------|-----------------------------------------|----------|---|
| (Y) 38   | AREA CONTROL<br>(AIR RANGE)             |          |   |
| MC(A)    | (VIU UVNCE)<br>WIZZION CONLUGT          |          |   |
| (V)Q1    | ATA THOMA<br>(AM ANGE)                  |          | Γ |
| C8(#)    | COORDINATOR/SUPERVISOR<br>(RADAR)       |          |   |
| (N) NA   | JONTHOL CONTROL<br>(Magar)              |          |   |
| DC(U)    | DEPARTURE CONTROL<br>(RADAR)            |          |   |
| VC (U)   | JONTNOS HJADPAGA<br>(Magan)             |          |   |
| (¥)@4    | ATA THEIR<br>(AAGAR)                    |          |   |
| C2(M)    | COORDINATOR/SUPERVISOR<br>(NON-RADAR)   |          |   |
| (N) 30   | DEFARTURE CONTROL<br>(NON-RADAR)        | •        | • |
| VC(N)    | APPROACH CONTROL<br>(NON-NODA)          | •        | • |
| (N) Q4   | ATAG THBIJ<br>(Ragar-non)               | •        | • |
| (8)80    | CODEDMATOR/SUPERVISOR<br>(GCA)          |          | Γ |
| (9) NA   | JONTROL CONTROL<br>(A38)                |          |   |
| FC(S)    | (ACLS)<br>FINAL CONTROL                 | -        | - |
| FC(P)    | (PAR)<br>(PAR)                          |          |   |
| (B) Q4   | FLIGHT DATA<br>(SCA)                    | -        | - |
| CELL     | (TOWER)<br>(TOWER)                      |          |   |
| 94       | PROJECT CONTROL                         |          | Γ |
|          | LOCAL CONTROL                           | •        | • |
| ງາ       |                                         |          |   |
| วา<br>วอ | EROUND CONTROL                          | •        | • |
|          | CLEARANCE<br>DELIVERY<br>GROUND CONTROL | •        | • |
| 29       | DEFINEWA                                | <u> </u> | - |

## ATCF EQUIPMENT STANDARD CLASS IVA

PURPOSE: FLIGHT PROGRESS DOCUMENTATION

FUNCTION: RECORD/DISPLAY

Enclosure (1) ATTACHMENT E

|                           |         | SYSTEM  | 2         |          | FREQUENCY | ENCY.    |   |          |         |                            |                                            |
|---------------------------|---------|---------|-----------|----------|-----------|----------|---|----------|---------|----------------------------|--------------------------------------------|
| OP ERATING<br>POSITION    | PRIMARY | YEGNATE | EMERGENCA | (WV) JHA | AHE (VW)  | AHE (EM) | K | TIMENANT | VECEIAE | APPLICATION                | REMARKS                                    |
| Flight Dispatcher         | ×       |         |           |          |           |          | × | ×        |         | Ship-to-Shore              | Master ATCOM facilities<br>only            |
| Flight Data (Tower)       |         |         |           |          |           |          |   |          |         | -                          | No Requirement                             |
| <b>Clearance</b> Delivery | ×       |         |           | ×        |           |          |   | × ×      |         | <b>Cleara</b> nce Delivery |                                            |
| Clearance Delivery        | ×       |         |           |          | ×         |          |   | ××       |         | Clearance Delivery         |                                            |
| Ground Control            | ×       |         |           | ×        |           |          |   | ×        |         | Ground Control             |                                            |
| Ground Control            | ×       |         |           |          | ×         |          |   | ××       |         | Ground Control             |                                            |
| Ground Control            | ×       |         |           | ×        |           |          |   | ×        |         | ATIS                       |                                            |
| Local Control             | ×       |         |           | ×        |           |          |   | ×××      |         | Tower Primary              |                                            |
| Local Control             |         | ×       |           | ×        |           |          |   | ××       |         | Tower Primary              |                                            |
| Local Control             |         |         | ×         | ×        |           |          |   | ××       |         | Tower Primary              |                                            |
| Local Control             | ×       |         |           |          | ×         |          |   | ××       |         | Tower Primary              |                                            |
| Local Control             |         | ×       |           |          | ×         |          |   | ××       |         | Tower Primary .            |                                            |
| Local Control             |         |         | ×         |          | ×         |          |   | ××       |         | Tower Primary              |                                            |
| Local Control             | ×       |         |           | ×        |           |          |   | ××       |         | LSO Primary                | Facilities supporting FCLP<br>requirements |
| Local Control             | ×       |         |           | ×        |           |          |   | ×        |         | Emergency (243.0)          |                                            |

ATCF COMMUNICATIONS STANDARD CLASS IVB

PURPOSE: AIRCRAFT CONTROL

Enclosure (1) ATTACHMENT F

OPNAVINST 3722.35 **2 1 SEP 1988** Class IVB Equipment Standards

|                                     |         | SYSTEM  |           |          | FREQUENCY | NCV      |          |          |         |                           |                                                  |
|-------------------------------------|---------|---------|-----------|----------|-----------|----------|----------|----------|---------|---------------------------|--------------------------------------------------|
| OF ERATING<br>POSITION              | YAAMIA9 | YEONATE | EWERGENCY | UHF (MM) | AHE (VW)  | ARE (EW) | HE       | TIMENAAT | VECEIAE | APPLICATION               | REMARKS                                          |
| Local Control                       |         | ×       |           | ×        |           |          |          | ×        | ×       | Emergency (243.0)         |                                                  |
| Local Control                       |         |         | ×         | ×        |           |          |          | ×        | ×       | Emergency (243.0)         |                                                  |
| Local Control                       | ×       |         |           |          | ×         |          |          | ×        | ×       | Emergency (121.5)         |                                                  |
| Local Control                       |         | ×       |           |          | ×         |          |          | ×        | ×       | Emergency (121.5)         |                                                  |
| Local Control                       |         |         | ×         |          | ×         |          |          | ×        | ×       | Emergency (121.5)         |                                                  |
| Local Control                       | ×       |         |           | ×        |           |          | <u> </u> | ×        | ×       | SAR (282.8)               | Facilities supporting defined<br>SAR requirement |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           | ×        |           |          |          | ×        | ×       | Clearance Delivery        |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           |          | ×         |          |          | ×        | ×       | <b>Clearance Delivery</b> |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           | ×        |           |          |          | ×        | ×       | Ground Control            |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           |          | ×         |          |          | ×        | ×       | Ground Control            |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           | ×        |           |          |          | ×        | ×       | Tower Primary             |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           |          | ×         |          |          | ×        | ×       | Tower Primary             |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           | ×        |           |          |          | ×        | ×       | LSO Primary               | Facilities supporting FCLP<br>requirements       |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           | ×        |           |          |          | ×        | ×       | Energency (243.0)         |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×       |         |           |          | ×         |          |          | ×        | ×       | Emergency (121.5)         |                                                  |

ATCF COMMUNICATIONS STANDARD ed Class IVB

PURPOSE AIRCRAFT CONTROL-Continued

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|                                     |        | SYSTEM  |           |          | FREQUENCY | NCY      |           |          |         |                              |                                                              |
|-------------------------------------|--------|---------|-----------|----------|-----------|----------|-----------|----------|---------|------------------------------|--------------------------------------------------------------|
| OPERATING<br>POSITION               | YRAMIN | YEGNAT2 | EMERGENCY | UNF (AM) | AHE (VIN) | AHE (EW) | HF        | TIMENAAT | VECEIAE | APPLICATION                  | REMARKS                                                      |
| Coordinator/Supervi-<br>sor (Tower) | ×      |         |           | . ×      |           | ╂╼╍┥     |           | ×        | ×       | SAR (282.8)                  | Facilities supporting defined<br>SAR requirements            |
| Ι.                                  | ×      |         |           | ×        |           |          |           | ×        | ×       | GCA Primary                  |                                                              |
| Final Control (PAR)                 | ×      |         |           |          | ×         |          | <u> </u>  | ×        | ×       | GCA Primary                  |                                                              |
| Final Control (PAR)                 | ×      |         |           | ×        |           |          |           | ×        | ×       | Single Frequency<br>Approach | All assigned to ATCF                                         |
| Final Control (PAR)                 | ×      |         |           | ×        |           |          | _ <u></u> | ×        | ×       | Emergency (243.0)            |                                                              |
| Final Control (PAR)                 | ×      |         |           |          | ×         |          |           | ×        | ×       | Emergency (121.5)            |                                                              |
| Final Control (ACLS)                | ×      |         |           | ×        |           |          |           | ×        | ×       | GCA Primary                  |                                                              |
| Final Control (ACLS)                | ×      |         |           | ×        |           |          |           | ×        | ×       | Single Frequency<br>Approach | All assigned to ATCF                                         |
| Final Control (ACLS)                | ×      |         |           | ×        |           |          |           | ×        | ×       | Emergency (243.0)            |                                                              |
| Flight Data (Radar)                 | ļ      |         |           |          |           |          |           |          |         |                              | No Requirement                                               |
| Approach Control<br>(Radar)         | ×      |         |           | ×        |           |          |           | ×        | ×       | Approach Sector<br>Primary   |                                                              |
| Approach Control<br>(Radar)         |        | ×       |           | ×        |           |          |           | ×        | ×       | Approach Sector<br>Primary   |                                                              |
| Approach Control<br>(Radar)         | ×      |         |           |          | ×         |          |           | ×        | ×       | Approach Sector<br>Primary   |                                                              |
| Approach Control<br>(Radar)         |        | ×       |           |          | ×         |          |           | ×        | ×       | Approach Sector<br>Primary   |                                                              |
| Approach Control<br>(Radar)         | ×      |         |           | ×        |           |          |           | ×        | ×       | Approach Sector<br>Secondary | Multi-Sector facilities use<br>other approach sector primary |

ATCF COMMUNICATIONS STANDARD ad CLASS IVB

PURPOSE: AIRCRAFT CONTROL-Continued

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Enclosure (1) ATTACHMENT F

OPNAVINST 3722.35 **2 1 SEP 1988** Class IVB Equipment Standards

|                              | -       | SYSTEM  |           |          | FREQUENCY | NCV      |    |          |         |                               |                                                               |
|------------------------------|---------|---------|-----------|----------|-----------|----------|----|----------|---------|-------------------------------|---------------------------------------------------------------|
| OF ERATING<br>POSITION       | YAAMIA9 | YEONATZ | EMERGENCY | UHF (AM) | AHE (VIN) | AHE (EW) | HE | TIMENANT | VECEIAE | APPLICATION                   | REMARKS                                                       |
| Approach Control<br>(Radar)  | ×       |         |           |          | ×         |          |    |          | ×       | Approach Sector<br>Secondary  | Multi-Sector facilities use<br>other approach sector primary  |
| Approach Control<br>(Radar)  | ×       |         |           | ×        |           |          |    | ×        | ×       | Single Frequency<br>Approach  | All assigned to ATCF                                          |
| Approach Control<br>(Radar)  | ×       |         |           | ×        |           |          |    | ×        | ×       | Emergency (243.0)             |                                                               |
| Approach Control<br>(Radar)  |         | ×       |           | ×        |           |          |    | ×        | ×       | Emergency (243.0)             |                                                               |
| Approach Control<br>(Radar)  | ×       |         |           |          | ×         |          |    | ×        | ×       | Emergency (121.5)             |                                                               |
| Approach Control<br>(Radar)  |         | ×       |           |          | ×         |          |    | ×        | ×       | Emergency (121.5)             |                                                               |
| Approach Control<br>(Radar)  | ×       |         |           | ×        |           |          |    | ×        | ×       | SAR (282.8)                   | Facilities supporting defined<br>SAR requirement              |
| Departure Control<br>(Radar) | ×       |         |           | ×        |           |          |    | ×        | ×       | Departure Sector<br>Primary   |                                                               |
| Departure Control<br>(Radar) |         | ×       |           | ×        |           |          |    | ×        | ×       | Departure Sector<br>Primary   |                                                               |
| Departure Control<br>(Radar) | ×       |         |           |          | ×         |          |    | ×        | ×       | Departure Sector<br>Primary   |                                                               |
| Departure Control<br>(Radar) |         | ×       |           |          | ×         |          |    | ×        | ×       |                               |                                                               |
| Departure Control<br>(Radar) | ×       |         |           | ×        |           |          |    | ×        | ×       | Departure Sector<br>Secondary | Multi-Sector facilities use<br>other departure sector primary |
| Departure Control<br>(Radar) | ×       |         |           |          | ×         |          |    | ×        | ×       | Departure Sector<br>Secondary |                                                               |
| Departure Control<br>(Radar) | ×       |         |           | ×        |           |          |    | ×        | ×       | Emergency (243.0)             |                                                               |
| Departure Control<br>(Radar) | ×       |         |           |          | ×         |          |    | ×        | ×       | Emergency (121.5)             |                                                               |

ATCF COMMUNICATIONS STANDARD

PURPOSE: AIRCRAFT CONTROL-Continued

### Enclosure (1) ATTACHMENT F

OPNAVINST 3722.35 2 1 SEP 1988

Class IVB Equipment Standards

|                                     |               | <b>SYSTEM</b> | -         |          | FREQUENCY | ENCY     | _  |          |         |                              |                      |
|-------------------------------------|---------------|---------------|-----------|----------|-----------|----------|----|----------|---------|------------------------------|----------------------|
| OPERATING<br>POSITION               | <b>YRAMIR</b> | YEONATE       | EMERGENCY | UNF (AM) | AHE (VM)  | AHE (EW) | HE | TIMENAAT | RECEIVE | APPLICATION                  | REMARKS              |
| Arrival Control<br>(Radar)          | ×             |               |           | ×        |           |          |    | ×        | ×       | GCA Primary                  |                      |
| Arrival Control<br>(Radar)          | ×             |               |           |          | ×         |          |    | ×        | ×       | GCA Primary                  |                      |
| Arrival Control<br>(Radar)          | ×             |               |           | ×        |           |          |    | ×        | ×       | Single Frequency<br>Approach | All assigned to ATCF |
| Arrival Control<br>(Radar)          | ×             |               |           | ×        |           |          |    | ×        | ×       | Emergency (243.0)            |                      |
| Arrival Control<br>(Radar)          | ×             |               |           |          | ×         |          |    | ×        | ×       | Emergency (121.5)            |                      |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           | ×        |           |          |    | ×        | ×       | GCA Primary                  |                      |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           |          | ×         |          |    | ×        | ×       | GCA Primary                  |                      |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           | ×        |           |          |    | ×        | ×       | Single Frequency<br>Approach | All assigned to ATCF |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           | ×        |           |          |    | ×        | ×       | Approach Sector<br>Primary   |                      |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           |          | ×         |          |    | ×        | ×       | Approach Sector<br>Primary   |                      |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           | ×        |           |          |    | ×        | ×       | Approach Sector<br>Secondary |                      |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           |          | ×         |          |    | ×        | ×       | Approach Sector<br>Secondary |                      |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           | ×        |           |          |    | ×        | ×       | Single Frequency<br>Approach | All assigned to ATCF |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           | ×        |           |          |    | ×        | ×       | Departure Sector<br>Primary  |                      |
| Coordinator/Supervi-<br>sor (Radar) | ×             |               |           |          | ×         |          |    | ×        | ×       | Departure Sector<br>Primary  |                      |

ATCF COMMUNICATIONS STANDARD

PUNPOSE: AIRCRAFT CONTROL-Continued

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Enclosure (1) ATTACHMENT F

OPNAVINST 3722.35 **2 1 SEP 1988** Class IVB Equipment Standards

|               | REMARKS                |                                     |                                     |                                     |                                     | Facilities supporting defined<br>SAR requirement |      |      |      |      |  |
|---------------|------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------------------|------|------|------|------|--|
|               | APPLICATION            | Departure Sector<br>Secondary       | Departure Sector<br>Secondary       | Emergency (243.0)                   | Emergency (121.5)                   | SAR (282.8)                                      |      |      |      |      |  |
|               | RECEIVE                | ×                                   | ×                                   | ×                                   | ×                                   | ×                                                |      |      |      |      |  |
|               | TIMENANT               | ×                                   | ×                                   | ×                                   | ×                                   | ×                                                | <br> |      |      | <br> |  |
| -             | HE                     |                                     |                                     |                                     |                                     |                                                  |      | <br> | <br> | <br> |  |
| FREQUENCY     | AHE (EM)               |                                     |                                     |                                     |                                     |                                                  |      |      |      |      |  |
| FREQ          | AHE (VW)               |                                     | ×                                   |                                     | ×                                   |                                                  |      |      |      |      |  |
|               | UNF (AM)               | ×                                   |                                     | ×                                   |                                     | ×                                                |      |      |      |      |  |
| -             | EMERGENCY              |                                     |                                     |                                     |                                     |                                                  |      |      |      |      |  |
| <b>SYSTEM</b> | <b>AEGNV1S</b>         |                                     |                                     |                                     |                                     |                                                  |      |      |      |      |  |
|               | YAAMIA9                | ×                                   | ×                                   | ×                                   | ×                                   | ×                                                |      |      |      |      |  |
|               | OF ERATING<br>POSITION | Coordinator/Supervi-<br>sor (Radar) | Coordinator/Supervi-<br>sor (Radar) | Coordinator/Supervi-<br>sor (Radar) | Coordinator/Supervi-<br>sor (Radar) | Coordinator/Supervi-<br>sor (Radar)              |      |      |      |      |  |

ATCF COMMUNICATIONS STANDARD

PURPOSE: AIRCRAFT CONTROL-Continued

Enclosure (1) ATTACHMENT F

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|                                     | 6              | SYSTEM  | _         |          | FREQUENCY | ENCY     |    |          |         |                    |                                                  |
|-------------------------------------|----------------|---------|-----------|----------|-----------|----------|----|----------|---------|--------------------|--------------------------------------------------|
| OPERATING<br>POSITION               | <b>FRIMERY</b> | YEGHATE | EMERGENCY | 0HE (VW) | ANE (VW)  | ARE (EW) | 14 | TIMENANT | RECEIVE | APPLICATION        | REMARKS                                          |
| Plight Dispatcher                   |                |         |           |          |           |          |    |          |         |                    | No Requirement                                   |
| Flight Data (Tower)                 |                |         |           |          |           |          |    |          |         |                    | No Requirement                                   |
| Clearance Delivery                  |                |         |           |          |           |          |    |          |         |                    | No Requirement                                   |
| Ground Control                      | ×              |         |           |          |           | ×        |    | ×        | ×       | Aircraft Emergency |                                                  |
| Ground Control                      | ×              |         |           |          |           | ×        |    | ×        | ×       | Fire Emergency     |                                                  |
| Ground Control                      | ×              |         |           |          |           | ×        |    | ×        | ×       | Security           | If airport access required by local directive    |
| Ground Control                      | ×              |         |           |          | •         | ×        |    | ×        | ×       | Crew Vehicles      |                                                  |
| Local Control                       |                |         |           |          |           |          |    |          |         |                    | No Requirement                                   |
| Coordinator/Supervi-<br>sor (Tower) | ×              |         |           |          |           | ×        |    | ×        | ×       | Aircraft Emergency |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×              |         |           |          |           | ×        |    | ×        | ×       | Fire Emergency     |                                                  |
| Coordinator/Supervi-<br>sor (Tower) | ×              |         |           | 1        |           | ×        |    | ×        | ×       | Security           | If airport access required by<br>local directive |
| Coordinator/Supervi-<br>sor (Tower) | ×              |         |           |          |           | ×        |    | ×        | ×       | Crew Vehicles      |                                                  |
| Final Control (PAR)                 |                |         |           |          |           |          |    |          |         |                    | No Requirement                                   |
| Final Control (ACLS)                |                |         |           |          |           |          |    |          |         |                    | No Requirement                                   |
| Flight Data (Radar)                 |                |         |           |          |           |          |    |          |         |                    | No Requirement                                   |

ATCF COMIMUNICATIONS STANDARD CLASS IVB

PURPOSE: VEHICLE CONTROL

Enclosure (1) ATTACHMENT F

### OPNAVINST 3722.35 **2 1 SEP 1988** Class IVB Equipment Standards

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REMARKS No Requirement . APPLICATION RECEIVE TIMENANT Ì ЯH FREQUENCY AHE (EM) (MV) JHA PURPOSE: VEHICLE CONTROL-Continued (MA) THU EMERGENCY SYSTEM YAGNATZ PRIMARY Coordinator/Supervi-sor (Radar) Departure Control (Radar) Approach Control (Radar) OPERATING POSITION

ATCF COMMUNICATIONS STANDARD CLASS IVB

OPNAVINST 3722.35 21 SEP 1988 Class IVB Equipment Standards

Enclosure (1) ATTACHMENT F

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|                 |                                                          | CONTROL TOWERS WITHIN ATCE ARSPACE | CONTROL TOWERS WITHIN SECTOR ARCPACE | AMPOATS AT WHICH LOCAL FLIGHTS MAY<br>TEAMINATE WITHOUT FAING 00-75 | APPROACH CONTROL FACKITIES<br>Abjoining ATCF ANSPACE | APPROACH CONTAOL FACHITIES<br>AD JOHNING SECTOR AMSPACE | ANTCC+ SEAVING ATCF AMSPACE | ARTCCS SERVICE SECTOR AMSPACE | ROCs WITH WHICH ATCF MAS<br>MANDOFF RESPONSIBILITIES | ROCS WITH WHICH SECTOR MAS<br>Mandoff responsibilities | FACSFACS WITH WHICH ATCF MAS<br>MANDOFF RESPONSIONITIES | FACSFACS WITH WHICH SECTOR MAS<br>MANDOFF RESPONSIBILITIES | FLIGHT BERVICE STATION BERVING<br>Primary Airport | FLIGHT SEAVICE STATION SEAVING<br>Satellité Airports | SAR AGENCY<br>(16 Station or Temant Part Of |
|-----------------|----------------------------------------------------------|------------------------------------|--------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|---------------------------------------------|
| 40              | FLIGHT DISPATCHER                                        |                                    |                                      | •                                                                   |                                                      |                                                         | •                           |                               |                                                      |                                                        |                                                         |                                                            | •                                                 | •                                                    | •                                           |
| (L) 04          | ATAG TROLIT<br>(Aswet)                                   | •                                  |                                      | •                                                                   |                                                      |                                                         | •                           |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      | •                                           |
| 63              | DETIAEUA<br>CEEVWVIICE                                   |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| 90              | CUDNUS CONTROL                                           |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| 51              | TOCUT CONLINGT                                           | •                                  |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| 34              | 10011003 1337004                                         |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   | ·                                                    |                                             |
| (L) 83          | EFICHL BVLV<br>(LOMEN)<br>COOUDINVLOU\SALEHAISOU         | •                                  |                                      | •                                                                   |                                                      |                                                         | •                           |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      | •                                           |
| (8) 63          | ENTY COLLEST                                             |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| EC(8)<br>(8) 24 | (VCIS)<br>LINVE CONTROL<br>(PAR)                         |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   | -                                                    |                                             |
| (9) 44          | ARAVAL CONTROL<br>ARAVAL CONTROL<br>(SCA)                |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| (8)83           | (BCV)<br>COOMBWIVLDW\2R6EHAI2BH                          | •                                  |                                      |                                                                     | •                                                    |                                                         |                             |                               | •                                                    |                                                        | •                                                       |                                                            |                                                   |                                                      |                                             |
| (H) <b>6</b> 4  | ATAG TNBLIF<br>(Ragar-ngu)                               |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| VC (III)        | (IROH-EVDVE)<br>VILLIVITATION CONTROL                    |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| DC (III)        | COOVDWYLDU/2RLEUA2OU<br>(MOR-UYUYU)<br>DELYVLAVE COULUDE |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         | -                                                          |                                                   |                                                      | v                                           |
|                 | (Inderstand)                                             | •                                  |                                      |                                                                     | •                                                    |                                                         | •                           |                               | -                                                    |                                                        | •                                                       |                                                            | _                                                 |                                                      |                                             |
| (U) C4          | (EVBVU)<br>Veenovch Conluge<br>(Evdvu)                   |                                    | •                                    |                                                                     |                                                      | •                                                       |                             | •                             |                                                      | •                                                      |                                                         | •                                                          |                                                   |                                                      | •                                           |
| 96(8)           | (BARANTURE CONTROL<br>DEPARTURE CONTROL                  |                                    | •                                    |                                                                     |                                                      | •                                                       |                             | •                             |                                                      | •                                                      |                                                         | •                                                          |                                                   |                                                      |                                             |
| (N) AA          | AMRIVAL CONTROL<br>(RABAR)                               |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| (W)80           | (UVDVU)<br>COOUDINY10W\SRLEUAISOU                        | •                                  |                                      |                                                                     | •                                                    |                                                         | •                           |                               | •                                                    |                                                        | •                                                       |                                                            |                                                   | •                                                    | ٠                                           |
| (V)81           | WIZZION CONLUGT<br>(VIW WVNCE)<br>EFIRIL BYLY            |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |
| (V) DIN         | (AM MANGE)                                               |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   | +                                                    |                                             |
| (V) CH          | (VIN WVICE)<br>COOKDINVLOV/SRAENAISON<br>(VIN WVICE)     |                                    |                                      |                                                                     |                                                      |                                                         |                             |                               |                                                      |                                                        |                                                         |                                                            |                                                   |                                                      |                                             |

ATCF COMMUNICATIONS STANDARD ATCF CLASS IVB

PURPOSE: INTERFACILITY COORDINATION FUNCTION: EXTERIOR LINES

> Enclosure (1) ATTACHMENT F

. . . .

KEY • AEQUINE®

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| TION: INTERIOR LINKS                  |         |                   | 1191                   | 5         | 3               | 5             | ¥               | C8(1)                             | 19 (C)               | 10.01                  | FC (S)                  | AR(C)                     | C3 (C)                          | Î,                          | AC (B)                           | <b>BC</b>                          | C 8 (II)                               | f 0 (W)                | ACIN                        | (U) ) (U)                    | An (n)                     | CSC                               | 10 LA                     | MC (A)                        | AC (A)                      | CB(A)                                  | 3                  | =        |   |
|---------------------------------------|---------|-------------------|------------------------|-----------|-----------------|---------------|-----------------|-----------------------------------|----------------------|------------------------|-------------------------|---------------------------|---------------------------------|-----------------------------|----------------------------------|------------------------------------|----------------------------------------|------------------------|-----------------------------|------------------------------|----------------------------|-----------------------------------|---------------------------|-------------------------------|-----------------------------|----------------------------------------|--------------------|----------|---|
|                                       |         | FLIGHT DISPATCHER | FLIGHT BATA<br>(TOWER) | CLEARABCE | GADUAIS COSTADI | LOCAL CONTROL | PROJECT CONTROL | COORDINATOR/SUPERVISOR<br>(TOWER) | FLIGHT BATA<br>(GCA) | FINAL CONTROL<br>(PAR) | FINAL CONTROL<br>(ACLS) | ARRIVILI CONTROL<br>(GCA) | COORDINATOR/SUPERVISON<br>(GCA) | FLIGHT BATA<br>(HON-ILADAR) | APPROACH CONTROL<br>(NON-ILAGAR) | DEPARTURE CONTREN.<br>(NON-ILADAR) | COORTINATOR/SUPERVISOR<br>(NON-(LASAR) | FLIGHT BATA<br>(Rabar) | APPRGACH CONTROL<br>(RADAR) | BEPARTURE CONTROL<br>(RADAR) | ARRIVIL CONTROL<br>(RADAR) | Coordimator/supervisor<br>(Raban) | FLIGHT BATA<br>(AM AANGE) | Missila Control<br>(AM RANGE) | AREA (DORTAD)<br>(AM RADGE) | COORDINATOR, SUPERVISOR<br>(AMR RADGE) | WEATHAR<br>SERVICE | TAABBENT |   |
| flight Dispatches                     | DF      |                   | •                      |           |                 |               |                 | •                                 |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        | •                      |                             |                              |                            | •                                 |                           |                               |                             |                                        | •                  | •        | t |
| FLIGHT DATA<br>(TOWER)                | FD(T)   | •                 |                        | •         | •               | •             |                 | ٠                                 |                      |                        |                         |                           | •                               |                             |                                  |                                    |                                        | ٠                      | •                           | •                            |                            | •                                 |                           |                               | -                           |                                        | •                  | •        | T |
| CLEARANCE<br>DELIVERY                 | CO      |                   | ٠                      |           |                 | •             |                 | ٠                                 |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        | ٠                      |                             | •                            |                            |                                   |                           |                               |                             |                                        |                    |          | T |
| GROUNS CONTROL                        | GC      |                   | •                      |           |                 | •             |                 | ٠                                 |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    | -        | t |
| LOCAL CONTROL                         | LC      |                   | •                      | •         | •               | !             |                 | •                                 |                      | •                      | •                       |                           | •                               |                             |                                  |                                    |                                        | ٠                      | •                           | •                            | •                          | •                                 |                           |                               |                             |                                        |                    |          | Γ |
| PROJECT CONTROL                       | PC      |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          | Ţ |
| COORDINATOR/SUPERVISOR<br>(TOWER)     | CS(T)   | •                 | •                      | •         | •               | •             |                 |                                   |                      | •                      | ٠                       |                           | •                               |                             |                                  |                                    |                                        | •                      | •                           | •                            | •                          | •                                 |                           |                               |                             |                                        | •                  | •        |   |
| FLIGHT BATA<br>(GCA)                  | FB (G)  |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          | T |
| FINAL CONTROL<br>(PAR)                | FC(P)   |                   | 1                      |           |                 | •             |                 | •                                 |                      |                        | ٠                       |                           | •                               |                             |                                  |                                    |                                        |                        | -                           |                              | •                          | ٠                                 |                           |                               |                             |                                        |                    |          | T |
| FINAL CONTROL<br>(ACLS)               | FC(8)   |                   |                        |           |                 | ٠             |                 | ٠                                 |                      | •                      |                         |                           | •                               |                             |                                  |                                    |                                        |                        |                             |                              | ٠                          | •                                 |                           |                               |                             |                                        |                    | <br>     | t |
| ARRIVAL CONTROL<br>(GCA)              | AR(C)   |                   | 1                      |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             | _                                |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          | t |
| COGREMATOR/SUPERVISOR<br>(GCA)        | C\$(6)  |                   | •                      |           |                 | ۰             |                 | •                                 |                      | •                      | •                       |                           |                                 |                             |                                  |                                    |                                        | ٠                      | •                           | •                            | ٠                          | ٠                                 |                           |                               |                             |                                        |                    |          | t |
| FLIGHT BATA<br>{HOM-RABAR}            | FB (N)  |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        | _                      |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          | ļ |
| APPREACH CONTROL<br>(NON-RABAR)       | AC(N)   |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        | Ī                      |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          | - |
| DEPARTURE CONTROL<br>(NON-RABAR)      | DC (M)  |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        | I                      |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          |   |
| COORDINATOR/SUPERVISOR<br>(NON-RADAR) | CS(N)   |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          |   |
| FLIGHT DATA<br>(RABAR)                | 59(R)   | •                 | •                      | ٠         |                 | •             |                 | ٠                                 |                      |                        |                         |                           | •                               |                             |                                  |                                    |                                        |                        | •                           | •                            | ٠                          | ٠                                 |                           |                               |                             |                                        | •                  |          |   |
| APPROACH CONTROL<br>(RABAR)           | AC (R)  |                   | •                      |           |                 | ٠             |                 | ٠                                 |                      |                        |                         |                           | •                               |                             |                                  |                                    |                                        | •                      |                             | •                            | ٠                          | ٠                                 |                           |                               |                             |                                        |                    |          |   |
| DEPARTURE CONTROL<br>(RABAR)          | BC(R)   |                   | ٠                      | ٠         |                 | •             |                 | ٠                                 |                      |                        |                         |                           | ٠                               |                             |                                  |                                    |                                        | •                      | •                           |                              |                            | ٠                                 |                           |                               |                             |                                        |                    |          |   |
| ARRIVAL CONTROL<br>(RABAR)            | AR(R)   |                   |                        |           |                 | •             |                 | ٠                                 |                      | ٠                      | •                       |                           | •                               |                             |                                  |                                    |                                        | •                      | •                           |                              |                            | •                                 |                           |                               |                             |                                        |                    |          |   |
| COORDINATOR/SUPERVISOR<br>(RADAR)     | CS(R)   | •                 | ٠                      |           |                 | ٠             |                 | •                                 |                      | ٠                      | ٠                       |                           | •                               |                             |                                  |                                    |                                        | •                      | •                           | •                            | ٠                          |                                   |                           |                               |                             |                                        | •                  |          |   |
| FLIGHT DATA<br>(AM RANGE)             | FD(A)   |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          |   |
| MIDEION CONTROL<br>(AIR RANGE)        | NIC (A) |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          |   |
| AREA CONTROL<br>(AM RANGE)            | RC(A)   |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          | Γ |
| COORDINATOR/SUPERVISOR                | CS(A)   |                   |                        |           |                 |               |                 |                                   |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           | -                             |                             |                                        |                    |          | Γ |
| WEATHER<br>SERVICE                    | WX      | •                 | ۲                      |           |                 |               |                 | •                                 |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        | •                      |                             |                              |                            | •                                 |                           |                               |                             |                                        |                    |          | Γ |
| TRANSIENT<br>LINE                     | n       | •                 | •                      |           |                 |               |                 | ٠                                 |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        |                        |                             |                              |                            |                                   |                           |                               |                             |                                        |                    |          | Γ |
| AN TERMINAL                           | AT      | 1                 | 1                      |           |                 |               |                 | 1                                 |                      |                        |                         |                           |                                 |                             |                                  |                                    |                                        | - 1                    |                             |                              |                            |                                   | _                         |                               |                             | -                                      |                    |          | F |

#### ATCF COMMUNICATIONS STANDARD ATCF CLASS IVB

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REGUIRED
 REGUIRED IF AIR TERMINAL INCORPORATED

LINK REQUIRED DETWEEN EACH POSITION OF SAME TYPE IF MORE THAN ONE INSTALLED.

#### Enclosure (1) ATTACHMENT F

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| C2(V)   | COORDINATOR/SUFERVISOR<br>(AIR RANGE) |                   |                        |                      |
|---------|---------------------------------------|-------------------|------------------------|----------------------|
| (V) 38  | AREA CONTROL<br>(AM RANGE)            |                   |                        |                      |
| INC(V)  | (VW VVNCE)<br>Wizzion comluge         |                   |                        |                      |
| (V)Q4   | ATAG THƏLJI<br>(39MAR MA)             |                   |                        |                      |
| C2(W)   | COORDMATOR/SUPERVISOR<br>(AABAR)      |                   |                        |                      |
| (8)84   | ARRIVAL CONTROL<br>(RADAR)            | •                 | •                      |                      |
| (W) 54  | (UVDVI)<br>Dedvijnke control          | •                 | •                      |                      |
| VC(B)   | APPROACH CONTROL<br>(RAGAR)           | •                 | •                      |                      |
| (W)@d   | atas thele<br>(Ragar)                 |                   |                        |                      |
| C2(III) | (NON-UVDVY)<br>COOUDINVLOU\SRLEUAISOU |                   |                        |                      |
| 9C(K)   | (HON-HEDRE)<br>DEPARTURE CONTROL      |                   |                        |                      |
| VC(M)   | JORTROCH CONTROL<br>(Radar-New)       |                   |                        |                      |
| 4D (N)  | ATAG THBLI<br>(RAGAR-NON)             |                   |                        |                      |
| (9)83   | (BCA)<br>COORDIMATOR/SUPERVISOR       |                   |                        |                      |
| (3) XY  | JGATNOL CONTROL<br>(SCA)              |                   |                        |                      |
| (\$)34  | (VCr2)<br>EMVT CONLEDF                | •                 | ٠                      | •                    |
| FC(P)   | (LVK)<br>Einver Control               | •                 | •                      | ٠                    |
| (B) 04  | FLIGHT DATA<br>(GCA)                  |                   |                        |                      |
| ເມຣວ    | (TOWER)<br>COORDINATOR/SUPERVISOR     |                   |                        |                      |
| 54      | JONTHOD TOBLOAN                       |                   |                        |                      |
| วา      | LOCAL CONTROL                         |                   |                        |                      |
| 38      | IGNTRO: CNUCAL                        |                   |                        |                      |
| 63      | DEFIAEUA<br>Crevvvuce                 |                   |                        |                      |
| (L) 64  | FLIGHT BATA<br>(TOWER)                |                   |                        |                      |
| 40      | FLIGHT DISPATCHER                     |                   |                        |                      |
|         |                                       | AIRCRAFT LOCATION | ARCRAFT IDENTIFICATION | AIRCRAFT POSITIONING |
|         |                                       | ₹                 | Į Ž                    | 2                    |

# ATCF EQUIPMENT \$TANDARD CLASS IVB

PURPOSE: AIRCRAFT CONTROL

FUNCTION: DISPLAYS

Enclosure (1) ATTACHMENT F

2

• REQUIRED

KEY:

|         |                                                  | BAROMETRIC PRESSURE | TIME | WINDSPEED AND DIRECTION | WEATHER  |
|---------|--------------------------------------------------|---------------------|------|-------------------------|----------|
| 40      | FLIGHT DISPATCHER                                |                     | •    | •                       | •        |
| (T) Q 1 | ATA DATA<br>(TOWER)                              |                     | •    |                         |          |
| CD      | DELIVERY<br>CLEARANCE                            |                     | •    |                         |          |
| 35      | GROUND CONTROL                                   | •                   | •    | •                       | •        |
| 31      | LOCAL CONTROL                                    | •                   | •    | •                       | •        |
| Del     |                                                  |                     |      |                         | <u> </u> |
| (T)23   | COONDIMATON/SUPERVISOR<br>(TOWER)<br>FLIGHT DATA | •                   | •    | ¢                       | •        |
| 10(0)   | FIMAL CONTROL                                    |                     |      |                         |          |
| (d) 34  | (PAR)<br>TOTTAOL<br>TOTTAOL                      |                     |      | •                       |          |
| FC(S)   | (ACLS)<br>ARRIVAL CONTROL                        |                     |      | •                       | -        |
| (3) 44  | (CCONDIMATOR/SUPERVISOR                          |                     | •    |                         | •        |
| ED (N)  | (SCA)<br>FLIGHT DATA<br>(NON-RADAR)              |                     |      |                         |          |
| VC(R)   | APPROACH CONTROL<br>Non-Approach Control         |                     |      |                         |          |
| DC(M)   | DEPARTURE CONTROL<br>(NON-NADAR)                 |                     |      |                         |          |
| C2{K}   | COORDINATOR/SUPERVISOR<br>(NON-RADAR)            |                     |      |                         |          |
| (W) 0 1 | ATAG THBUJ<br>(Aagar)                            |                     | •    |                         |          |
| (A) 3A  | APPROACH CONTROL<br>(Radar)                      | •                   | •    |                         | •        |
| DC(K)   | DEPARTURE CONTROL<br>(RADAR)                     | •                   | •    |                         | •        |
| (J) NA  | JORTNOJ CONTROL<br>(Radar)                       | •                   | •    | •                       | •        |
| C2(W)   | COORDINATOR/SUPERVISOR<br>(RADAR)                | •                   | •    |                         | •        |
| (A) G1  | ATAG THƏIJ<br>(30MAR RIA)<br>1051102 HOUZSIM     |                     |      |                         |          |
| NC(V)   | IONTNOL CONTROL<br>(30HAA AIAS)<br>AAREA CONTROL |                     |      |                         |          |
| RC (A)  | (30NAR RIA)                                      |                     |      |                         |          |

# ATCF EQUIPMENT STANDARD CLASS IVB

PURPOSE: INFORMATION SOURCES

FUNCTION: DISPLAYS

Enclosure (1) ATTACHMENT F

F-12

• REQUIRED

KEY:

|            |                                                  | FLIGHT PROGRESS RECORD | FLIGHT PROGRESS DISPLAY |
|------------|--------------------------------------------------|------------------------|-------------------------|
| 40         | FLIGHT DISPATCHER                                | •                      | •                       |
| ED(T)      | FLIGHT DATA<br>(TOWER)                           | •                      | •                       |
| 00         | CLEARANCE<br>DELIVERY                            | •                      | •                       |
| <b>39</b>  | EROUND CONTROL                                   | •                      | •                       |
| <b>ว</b> า | LOCAL CONTROL                                    | •                      | •                       |
| 24         |                                                  |                        |                         |
| (L)\$0     | COORDINATOR/SUPERVISOR<br>(TOWER)<br>FLIGHT DATA |                        |                         |
| (3)04      | FINAL CONTROL                                    |                        |                         |
| EC(b)      | EINVE CONTROL<br>(PAR)                           |                        |                         |
| (8)24      | (ACLS)<br>ARRIVAL CONTROL                        |                        |                         |
| C2(6)      | (6CA)<br>COORDIMATOR/SUPERVISOR<br>(202)         |                        |                         |
| ED(#)      | (AS2)<br>FLIGHT DATA<br>(NOU-NOU)<br>(NOARN-NOU) |                        |                         |
| (N) 3V     | JONTHO HOADAGA                                   |                        |                         |
| 00(11)     | JOATURE CONTROL<br>(Nadar-Non)                   |                        |                         |
| CS(N)      | AGEIVAJAUZANOTANIGAGOO<br>(Addan-Ngu)            |                        |                         |
| (W) 01     | ATAG THBUJ<br>(RAGAR)                            | •                      | •                       |
| (N) 34     | JORTAG CONTROL<br>(Radar)                        | •                      | •                       |
| DC(N)      | DEPARTURE CONTROL<br>(RADAR)<br>1007103 (MIGGO   | •                      | •                       |
| (N)FA      | ARRIVAL CONTROL<br>(RADAR)                       | •                      | •                       |
| C2(W)      | COORDINATOR/SUFERVISOR<br>(RADAR)<br>FLIGHT DATA |                        |                         |
| (A) G1     | WISSION CONTROL<br>(AIR RANCE)                   |                        |                         |
| NC(V)      | (AIR RANGE)<br>AREA CONTROL                      |                        |                         |
| KC (A)     | (AIR RANGE)<br>COORDINATOR/SUPERVISOR            |                        |                         |

# ATCF EQUIPMENT STANDARD CLASS IVB

PURPOSE: FLIGHT PROGRESS DOCUMENTATION

FUNCTION: RECORD/DISPLAY

• REQUIRED

KEY:

|                                         | 5       | SYSTEM  | _         | <b>16</b>    | FREQUENCY    | ENCY     |    |          |         |             |                                                       |
|-----------------------------------------|---------|---------|-----------|--------------|--------------|----------|----|----------|---------|-------------|-------------------------------------------------------|
| 0FERATING<br>POSITION                   | YAAMIA9 | YEGNAT2 | EMERGENCY | UHF (MM) THU | AHE (VW) JHA | AHE (EM) | HF | TIMENANT | RECEIVE | APPLICATION | REMANKS                                               |
| Flight Dispatcher                       |         |         | Γ         | Ì            |              |          |    |          |         |             | As required to conform to basic<br>ATCF configuration |
| Flight Data (Tower)                     |         |         |           |              |              |          |    |          |         |             |                                                       |
| Clearance Delivery                      |         |         |           |              |              |          |    |          |         |             |                                                       |
| Ground Control                          |         |         |           |              |              |          |    |          |         |             |                                                       |
| Local Control                           |         |         |           |              |              |          |    |          |         |             |                                                       |
| Coordinator/Supervi-<br>sor (Tower)     |         |         |           |              |              |          |    |          |         |             |                                                       |
| Flight Data (GCA)                       |         |         |           |              |              |          |    |          |         |             |                                                       |
| Final Control (PAR)                     |         |         |           |              |              |          |    |          |         |             |                                                       |
| Final Control (ACLS)                    |         |         |           |              |              |          |    |          |         |             |                                                       |
| Arrival Control (GCA)                   |         |         |           |              |              |          |    |          |         |             |                                                       |
| Coordinator/Supervi-<br>sor (GCA)       |         |         |           |              |              |          |    |          |         |             |                                                       |
| Flight Data (Non-<br>Radar)             |         |         |           |              |              |          |    |          |         |             |                                                       |
| Approach Control<br>(Non-Radar)         |         |         |           |              |              |          |    |          |         | -           |                                                       |
| Departure Control<br>(Non-Radar)        |         |         |           |              |              |          |    |          |         |             |                                                       |
| Coordinator/Supervi-<br>sor (Non-Radar) |         |         |           |              |              |          |    |          |         |             |                                                       |

ATCF COMMUNICATIONS STANDARD CLASS va & vb

PURPOSE: AIRCRAFT CONTROL

1 1 Enclosure (1) ATTACHMENT G

10 410 410

### OPNAVINST 3722.35 **2 1 SEP 1988** Class VA & VB Equipment Standards

|                                     | ••      | SYSTEM  | 3         |          | FREQUENCY | ENCY     |    |          |         |                           |                                                         |
|-------------------------------------|---------|---------|-----------|----------|-----------|----------|----|----------|---------|---------------------------|---------------------------------------------------------|
| OPERATING<br>POSITION               | YAAMIA9 | TEGNATZ | EMERGENCY | (MA) 7HU | (MA) 3HV  | AHE (EW) | HF | TIMENAAT | RECEIVE | APPLICATION               | REMARKS                                                 |
| Flight Data (Radar)                 |         |         |           |          |           |          |    | <u> </u> |         |                           | As required to conform to basic<br>ATCF configuration   |
| Approach Control<br>(Radar)         |         |         |           |          |           |          |    |          |         |                           |                                                         |
| Departure Control<br>(Radar)        |         |         |           |          |           |          |    |          |         |                           |                                                         |
| Arrival Control<br>(Radar)          |         |         |           |          |           |          |    |          |         |                           |                                                         |
| Coordinator/Supervi-<br>sor (Radar) |         |         | _         |          |           |          |    |          |         |                           |                                                         |
| Project Control                     | ×       |         |           | ×        |           |          |    | ×        | ×       | Project Primary           |                                                         |
| Project Control                     | ×       |         |           | ×        |           |          |    | ×        | ×       | Project Discrete          | Quantity as required to conform<br>to site requirements |
| Project Control                     | ×       |         |           |          | ×         |          |    | ×        | ×       | Project Discrete          |                                                         |
| Project Control                     | ×       |         |           |          |           | ×        |    | ×        | ×       | Project Discrete          |                                                         |
| Project Control                     | ×       |         |           | ×        |           |          |    | ×        | ×       | Emergency (243.0)         |                                                         |
| Project Control                     | ×       |         |           |          | ×         |          |    | ×        | ×       | Emergency (121.5)         |                                                         |
| Flight Data (Air<br>Range)          |         |         |           |          |           |          |    |          |         |                           | No Requirement                                          |
| Mission Control (Air<br>Range)      | ×       |         |           | ×        |           |          |    | ×        | ×       | Mission Sector<br>Primary |                                                         |
| Mission Control (Air<br>Range)      | ×       | ļ       |           | ×        |           |          |    | ×        | ×       | Mission Discrete          | Quantity as required to conform<br>to site requirements |
| Mission Control (Air<br>Bange)      | ×       | L       |           |          | ×         |          |    | ×        | ×       | Mission Discrete          |                                                         |

ATCF COMMUNICATIONS STANDARD ad CLASS VA & VB

PURPOSE: AIRCRAFT CONTROL-Continued

Enclosure (1) ATTACHMENT G

### OPNAVINST 3722.35 **2 1 SEP 1988** Class VA & VB Equipment Standards

ATCF COIMMUNICATIONS STANDARD d Class va & vb

PURPOSE: AIRCRAFT CONTROL-Continued

|                                         | Í          | SYSTEN |       |          | FREQUENCY | NCV | ┝─ | $\vdash$ | ⊢    |                           |                                                         |
|-----------------------------------------|------------|--------|-------|----------|-----------|-----|----|----------|------|---------------------------|---------------------------------------------------------|
| OP ERATING<br>POSITION                  | <b>VAA</b> | 780    | ADN39 | <u> </u> |           | ()) |    | LIWS     | IAE  | APPLICATION               | remarks                                                 |
|                                         | MINY       | NVLS   | EMEN  | JHO      | AHE       | AHE | HE |          | RECE |                           |                                                         |
| Mission Control (Air<br>Range)          | ×          |        | İ     |          | <b> </b>  | ×   |    | ×        | ×    | Mission Discrete          | Quantity as required to conform<br>to site requirements |
|                                         | ×          |        |       | ×        |           |     |    | ×        | ×    | Emergency (243.0)         |                                                         |
| Mission Control (Air<br>Range)          | ×          |        |       |          | ×         |     | -  | ×        | ×    | Emergency (121.5)         |                                                         |
| Mission Control (Air<br>Range)          | ×          |        |       | ×        |           |     |    | ×        | ×    | SAR (282.8)               | ATCFS supporting defined SAR requirement                |
| Area Control (Air<br>Range)             | ×          |        |       | ×        |           |     |    | ×        | ×    | Area Sector<br>Primary    |                                                         |
| .                                       | ×          |        |       | ×        |           |     |    | ×        | ×    | Project Discrete          | Quantity as required to conform<br>to site requirements |
|                                         | ×          |        |       |          | ×         |     |    | ×        | ×    | Project Discrete          |                                                         |
| Area Control (Air<br>Range)             | ×          |        |       |          |           | ×   |    | ×        | ×    | Project Discrete          |                                                         |
| Area Control (Air<br>Range)             | ×          |        |       | ×        |           |     |    | ×        | ×    | Emergency (243.0)         |                                                         |
| Area Control (Air<br>Range)             | ×          |        |       |          | ×         |     |    | ×        | ×    | Emergency (121.5)         |                                                         |
| Area Control (Air<br>Range)             | ×          |        |       | ×        |           |     |    | ×        | ×    | SAR (282.8)               | ATCFs supporting defined SAR requirement                |
| Coordinator/Supervi-<br>sor (Air Range) | ×          |        |       | ×        |           |     |    | ×        | ×    | Mission Sector<br>Primary |                                                         |
| Coordinator/Supervi-<br>sor (Air Range) | ×          |        |       | ×        |           |     |    | ×        | ×    | Mission Discrete          | Quartity as required to conform<br>to site requirements |
| Coordinator/Supervi-<br>sor (Air Range) | х          |        |       |          | ×         |     |    | ×        | ×    | Mission Discrete          |                                                         |
| Coordinator/Supervi-<br>sor (Air Range) | ×          |        |       |          |           | ×   |    | ×        | ×    | Mission Discrete          |                                                         |

OPNAVINST 3722.35 **2 1 SEP 1988** Class VA & VB Equipment Standards

|                                         |         | <b>SYSTEM</b> | 3         |          | FREQUENCY | ENCY     |    |          |         |                     |                                                         |
|-----------------------------------------|---------|---------------|-----------|----------|-----------|----------|----|----------|---------|---------------------|---------------------------------------------------------|
| OPERATING<br>POSITION                   | YAAMIA9 | YEGNAT2       | EMERGENCY | UNF (AM) | AHE (VIV) | AHE (EW) | HE | TIMENAAT | RECEIVE | APPLICATION         | REMARKS                                                 |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |               |           | ×        | 1         |          |    | ×        | ×       | Area Sector Primary |                                                         |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |               |           | ×        |           |          |    | ×        | ×       | Project Discrete    | Quantity as required to conform<br>to site requirements |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |               |           |          | ×         |          |    | ×        | ×       | Project Discrete    |                                                         |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |               |           |          |           | ×        |    | ×        | ×       | Project Discrete    |                                                         |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |               |           | ×        |           |          |    | ×        | ×       | Emergency (243.0)   |                                                         |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |               |           |          | ×         |          |    | ×        | ×       | Eumergency (121.5)  |                                                         |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |               |           |          | ×         |          |    | ×        | ×       | SAR (282.8)         | ATCFs supporting defined SAR requirement                |
|                                         |         |               |           |          |           |          |    |          |         |                     |                                                         |
|                                         |         |               |           |          |           |          |    |          |         |                     |                                                         |
|                                         |         |               |           |          |           |          |    |          |         |                     |                                                         |
|                                         |         |               |           |          |           |          |    |          |         |                     |                                                         |
|                                         |         |               |           |          |           |          |    |          |         |                     |                                                         |
|                                         |         |               |           |          |           |          |    |          |         |                     |                                                         |
|                                         |         |               |           |          |           |          |    |          |         |                     |                                                         |
|                                         |         |               |           |          |           |          |    |          |         |                     | -                                                       |
|                                         |         |               |           |          |           |          |    |          |         |                     |                                                         |

ATCF COMMUNICATIONS STANDARD d CLASS VA & VB

PURPOSE: AIR AFT CONTROL-Continued

nclosure (1

Enclosure (1) ATTACHMENT G

G-A

As required to conform to basic ATCF configuration basic 5 As required to conform ATCF configuration REMARKS No Requirement No Requirement No Requirement APPLICATION RECEIVE TIMENAAT 3N FREQUENCY AHE (EM) AHE (VW) (WV) JHA EMERGENCY **SYSTEN ABGNAT2 YRAMIN** Departure Control (Non-Radar) Coordinator/Supervi-sor (Non-Radar) Arrival Control (GCA) Coordinator/Supervi-sor (Tower) Coordinator/Supervi-sor (GCA) Final Control (ACLS) Final Control (PAR) Flight Data (Tower) **Clearance Delivery** Flight Dispatcher Flight Data (GCA) Flight Data (Non-Radar) Approach Control (Non-Radar) Ground Control **OPERATING** POSITION Local Control

ATCF COMMUNICATIONS STANDARD CLASS va & vb

PURPOSE: VEHICLE CONTROL

Enclosure (1) ATTACHMENT G

#### **2 1 SEP 1988** Class VA & VB Equipment Standards

OPNAVINST 3722.35

|                                     | Ĩ             | SYSTEIN |           |          | FREQUENCY | MCV      |    |          |         |                    |                                                  |
|-------------------------------------|---------------|---------|-----------|----------|-----------|----------|----|----------|---------|--------------------|--------------------------------------------------|
| OFERATING<br>POSITION               | <b>VAAMIN</b> | YAGNATZ | EMERGENCY | UHF (VW) | AHE (VW)  | AHE (EW) | HE | TIMENAAT | RECEIVE | APPLICATION        | REMARKS                                          |
| Flight Data (Radar)                 |               | 1       |           |          |           | 1        |    | 1        |         |                    | No Requirement                                   |
| Approach Control<br>(Radar)         |               |         |           |          |           |          |    |          |         |                    |                                                  |
| Departure Control<br>(Radar)        |               |         |           |          |           |          |    | _        |         |                    |                                                  |
| Arrival Control<br>(Radar)          |               |         |           |          |           |          |    |          |         |                    |                                                  |
| Coordinator/Supervi-<br>sor (Radar) |               |         |           |          |           |          |    |          |         |                    |                                                  |
| Project Control                     | ×             |         |           |          |           | ×        |    | ×        | ×       | Crew Vehicles      | If airport access required<br>by local directive |
| Flight Data<br>(Air Range)          |               |         |           |          |           |          |    |          |         |                    | No Requirement                                   |
| Mission Control<br>(Air Range)      | ×             |         |           | ×        |           |          |    | ×        | ×       | Aircraft Emergency | If range access required by<br>local directive   |
| Mission Control<br>(Air Range)      | ×             |         |           |          | ×         |          | -  | ×        | ×       | Aircraft Emergency |                                                  |
| Mission Control<br>(Air Range)      | ×             |         |           |          |           | ×        |    | ×        | ×       | Aircraft Emergency |                                                  |
| Mission Control<br>(Air Range)      | ×             |         |           | ×        |           |          |    | ×        | ×       | Fire Emergency     |                                                  |
| Mission Control<br>(Air Range)      | ×             |         | _         |          | ×         |          |    | ×        | ×       | Fire Emergency     |                                                  |
| Mission Control<br>(Air Range)      | ×             |         |           |          |           | ×        |    | ×        | ×       | Fire Emergency     |                                                  |
| Mission Control<br>(Air Range)      | ×             |         |           | ×        |           |          |    | ×        | ×       | Security           |                                                  |
| Mission Control<br>(Air Range)      | ×             |         |           |          | ×         |          |    | ×        | ×       | Security           |                                                  |

ATCF COMMUNICATIONS STANDARD CLASS VA & VB

Enclosure (1) ATTACHMENT G

G-6

|                                         |         | <b>SYSTEM</b>  | _         | ۰.               | FREQUENCY | NCY     |   |         |                    |                                                |
|-----------------------------------------|---------|----------------|-----------|------------------|-----------|---------|---|---------|--------------------|------------------------------------------------|
| OPERATING<br>POSITION                   | PRIMARY | <b>AEGWVLS</b> | EMERGENCY | ( <b>MA)</b> 3HU | AHE (VUI) | HE (EW) | r | UECEIAE | APPLICATION        | REMANKS                                        |
| Mission Control<br>(Air Range)          | ×       |                |           |                  |           | ×       | × | ×       | Security           | If range access required by<br>local directive |
| Mission Control<br>(Air Range)          | ×       |                |           | ×                |           |         | × | ×       | Crew Vehicles      |                                                |
| Mission Control<br>(Air Range)          | ×       |                |           |                  | ×         |         | × | ×       | Crew Vehicles      |                                                |
| Mission Control<br>(Air Range)          | ×       |                |           |                  |           | ×       | × | ×       | Crew Vehicles      |                                                |
| Area Control<br>(Air Range)             |         |                |           |                  |           |         |   |         |                    | No Requirement                                 |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           | ×                |           | ļ       | × | ×       | Aircraft Emergency | If range access required by<br>local directive |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           |                  | ×         |         | × | ×       | Aircraft Emergency |                                                |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           |                  |           | ×       | × |         | Aircraft Emergency |                                                |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           | ×                |           | ļ       | × | ×       | Fire Emergency     |                                                |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           |                  | ×         |         | × | ×       | Fire Emergency     |                                                |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           |                  |           | ×       | × | ×       | Fire Emergency     |                                                |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           | ×                |           |         | × | ×       | Security           |                                                |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           |                  | ×         | ļ       | × |         | Security           |                                                |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           |                  |           | ×       | × |         | Security           |                                                |
| Coordinator/Supervi-<br>sor (Air Range) | ×       |                |           | ×                |           |         |   |         | Crew Vehicles      |                                                |
|                                         |         |                |           |                  |           |         |   |         |                    |                                                |

ATCF COMMUNICATIONS STANDARD Class va & vb

PURPOSE: VEHICLE CONTROL-Continued

### OPNAVINST 3722.35 **2 1 SEP 1988** Class VA & VB Equipment Standards

Enclosure (1) ATTACHMENT G

If range access required by local directive REMARKS APPLICATION **Crew Vechicles Crew Vehicles** RECEIVE TIMENAAT зH FREQUENCY × AHE (EW) × (MA) HHV (WV) JHA EWERGENCY SYSTEM **VEGNAT2** × YAAMIA9 × Coordinator/Supervi-sor (Air Range) Coordinator/Supervi-sor (Air Range) **OPERATING POSITION** 

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# ATCF COMMUNICATIONS STANDARD CLASS VA & VB

PURPOSE: VEHICLE CONTROL -Continued

Enclosure (1) ATTACHMENT G

OPNAVINST 3722.35 2 1 SEP 1988

Class VA & VB Equipment Standards

|            |                                                 | CONTROL TOWERS WITHIN ATCF AMSPACE | CANTAM TOWERS WITHIN BECTON AIRSPACE | AMPANTS AT WHICH LOCAL FLIGHTS MAY<br>TERMINIATE WITHOUT FLIME 00-75 | APPROACH CONTROL FACHLITIES<br>ADJOINNUE ATCF AMSPACE | APPROACH CONTROL FACHITIES<br>Abjoining sector Anspace | ARTCCI SERVING ATCF AIASPACE | ARICCI SERVING SECTOR AMSPACE | ROCS WITH WHICH ATCF HAS<br>HANDOFF RESPONSIBILITIES | NOCS WITH WHICH SECTOR MAS<br>MANDOFF RESPONSIBILITIES | FACSFACA WITH WHICH ATCF HAS<br>HANDGFF RESPONSIBILITIES | FACSFAC5 WITH WHICH SECTOR MAS<br>MANDOFF RESPONSIBILITIES | FLIGHT SERVICE STATION SERVING<br>PRIMARY AIRPORT | FLIGNT SERVICE STATION SEAVUNG<br>SATELLITE AIRPORTS | SAR AGEMCY<br>(if station or tenamt part of<br>hational sar plan) | Agn |
|------------|-------------------------------------------------|------------------------------------|--------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|------------------------------|-------------------------------|------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|-----|
| 44         | RENDENT DISPATCHER                              |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        | <br>                                                     | <br>                                                       | <u> </u>                                          |                                                      |                                                                   |     |
| (1)64      | ATAE THOLF<br>(ASWOT)                           |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| 93         | DETIAEUA<br>CEEVIIVIICE                         |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        | •                                                        |                                                            |                                                   |                                                      |                                                                   |     |
| 39         | CULLES CHACUS                                   |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        | Janes                                                    |                                                            |                                                   |                                                      |                                                                   |     |
| ງ <u>າ</u> |                                                 |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      | 1                                                      |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| 34         | CODUDINATOR/SUPERVISOR                          |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      | STMUL T                                                | I                                                        |                                                            |                                                   |                                                      |                                                                   |     |
| C8(L)      | (Rawer)<br>Atag Thous                           |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| EC(6)      | (LAV)<br>HINT COULUOF<br>(BCV)                  |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (\$)34     | (VCT2)<br>HINVE COULINGE                        |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               | ionie -                                              |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (9) 44     | RECV)<br>VERNAVT CONLEGE                        |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (9)\$3     | RECA)<br>COORDIMATOR/SUPERVISOR                 |                                    |                                      |                                                                      |                                                       |                                                        | - ",                         | 34                            |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (N) C1     | VERBACK CONTROL<br>(MON-RABAR)                  |                                    |                                      |                                                                      |                                                       |                                                        | CONTRE                       |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (1)34      | DEPARTURE CONTROL                               |                                    |                                      |                                                                      |                                                       | NOIL                                                   |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| C2(II)<br> | (BOR-SYDY)<br>COOLDINYLOU\ERAIDY<br>(BOR-SYDY)  |                                    |                                      |                                                                      |                                                       |                                                        | _                            |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| E0(W)      | ATAG TINGLIA<br>(AAdada                         |                                    |                                      |                                                                      | - *                                                   |                                                        |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (N) DA     | GIVENUS<br>VLABOVCH CBULUEL                     |                                    |                                      |                                                                      | T                                                     |                                                        |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (¥)30      | GEVENUE)<br>DELVELINE COLLING                   |                                    |                                      |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (N) NA     | COOUDINY_286844208<br>GUVDVU:<br>VUUAVT CORLING |                                    | -                                    |                                                                      |                                                       |                                                        |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (¥)\$3     |                                                 | $\rightarrow$                      |                                      |                                                                      | -                                                     | -                                                      |                              |                               |                                                      |                                                        |                                                          |                                                            |                                                   |                                                      |                                                                   |     |
| (V)GJ      | RAZION CONLEGT<br>(VIX VVNCE)                   |                                    |                                      |                                                                      | •                                                     |                                                        | •                            | _                             | •                                                    |                                                        | •                                                        |                                                            |                                                   |                                                      | •                                                                 |     |
| (V) 310    | (AMR RANGE)<br>AREA CONTROL                     |                                    |                                      |                                                                      |                                                       | •                                                      |                              | •                             |                                                      | •                                                      |                                                          | •                                                          |                                                   |                                                      |                                                                   |     |
| C3 (V) 53  | RRW BYRCE)<br>CROUDWRYLDW/SRLEUAISDU            |                                    |                                      |                                                                      | •                                                     |                                                        | •                            |                               | •.                                                   |                                                        | •                                                        |                                                            |                                                   |                                                      | •                                                                 |     |

ATCF COMMUNICATIONS STANDARD ATCF CLASS VA & VB

> PURPOSE: INTERFACILITY COORDINATION FUNCTION: EXTERIOR LINES

1

Enclosure (1) ATTACHMENT G

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1 (17)514

| DSE: INTRA-FACILITY COORD<br>TION: INTERIOR LINKS |        | 2                | Ē                      | 5                    | 3              | 5             | z               | 695                                | F0(6)                | FC(P)                  | 60.09                   | Alt(C)                   | 6969                               | 8                             | VC (U)                          |                                  | C 8(M)                               | l an                   | AC(R)                      | BC (B)                       | a a                       | (8)8)                             | FB(A)                     | MC(A)                         | N)                           | (1967)                               | 1.M                | 2                 | : |
|---------------------------------------------------|--------|------------------|------------------------|----------------------|----------------|---------------|-----------------|------------------------------------|----------------------|------------------------|-------------------------|--------------------------|------------------------------------|-------------------------------|---------------------------------|----------------------------------|--------------------------------------|------------------------|----------------------------|------------------------------|---------------------------|-----------------------------------|---------------------------|-------------------------------|------------------------------|--------------------------------------|--------------------|-------------------|---|
|                                                   |        | FLIGHT DEPATCHER | FLIGHT BATA<br>(TOWER) | CLEARANCE<br>DELWERY | SAOUND CONTROL | LOCAL CONTROL | PRAJECT CONTROL | Coondera Toa/Supervison<br>(Towen) | FLIGHT DATA<br>(SCA) | FIMAL CONTROL<br>(FAR) | FIRAL CONTROL<br>(ACLS) | ARRIVAL CONTROL<br>(SCA) | Connexia Ton / Supervison<br>(SCA) | FLIGHT BATA<br>(INDH - RABAR) | APPRAACH CONTROL<br>(Non-Rabar) | BEPARTURE CONTROL<br>(NON-RABAR) | COMBINATOR/SUPERVISON<br>(NON-RADAR) | FLIGHT BATA<br>(RABAR) | APPRACH CONTROL<br>(RABAR) | BEPARTURE CONTROL<br>(RABAR) | AAAWAL CORTROL<br>(AABAA) | COORDINATON/SUPERVISON<br>(NABAR) | FLIGHT BATA<br>(AM RANGE) | MARSION CONTROL<br>(AM RANGE) | AREA CONTROL<br>(ANR RAINGE) | COORDINATOR/SUPERVISOR<br>(AM RANGE) | WEATHER<br>SERVICE | TAANSKENT<br>Lank |   |
| FLIGHT DISPATCHER                                 | 89     |                  |                        |                      |                |               |                 |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | ٠                         |                               |                              | •                                    |                    |                   |   |
| FLIGHT BATA<br>(TOWER)                            | FB(T)  |                  |                        |                      |                |               | •               |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   |                           |                               |                              |                                      |                    |                   |   |
| CLEARANCE<br>DELIVERY                             | c.     |                  |                        |                      |                |               |                 |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   |                           |                               |                              |                                      |                    |                   |   |
| EROUND CONTROL                                    | 6C     |                  |                        |                      |                |               | •               |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  | L                                    |                        |                            |                              |                           |                                   |                           |                               |                              |                                      |                    |                   |   |
|                                                   | LC     |                  |                        |                      |                |               | •               |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | •                         |                               |                              |                                      |                    | <b> </b>          | _ |
| PROJECT CONTROL                                   | PC     |                  | •                      |                      | •              | •             |                 | •                                  |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | •                         | •                             | •                            | •                                    |                    | L                 | _ |
| COORDINATOR/SUPERVISOR<br>(TOWER)                 | CS(T)  |                  |                        |                      |                |               | ٠               |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  | A)                                   |                        |                            |                              |                           |                                   | •                         |                               |                              | •                                    |                    |                   |   |
| FLIGHT BATA<br>(SCA)                              | FD (G) |                  | 1                      |                      |                |               |                 |                                    |                      |                        |                         |                          |                                    | INED                          | 10 V<br>5 V                     | ' <i>th</i> , ,                  |                                      |                        |                            |                              |                           |                                   | ÷                         |                               |                              | ٠                                    |                    | Ļ                 | _ |
| FINAL CONTROL<br>(PAR)                            | FC(P)  |                  |                        |                      |                |               |                 |                                    |                      |                        |                         |                          | AS TIO                             |                               | •                               |                                  |                                      |                        |                            |                              |                           |                                   |                           |                               |                              |                                      |                    |                   | _ |
| FINAL CONTROL<br>(ACLS)                           | FC (S) |                  |                        |                      |                |               |                 |                                    |                      | I III                  | ONAL                    | ONFIGI                   | 1                                  |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   |                           |                               |                              |                                      |                    |                   |   |
| ARRIVAL CONTROL<br>(SCA)                          | AR (6) |                  |                        | 1                    |                |               |                 |                                    | OVIDE                | ADU. I                 | 1                       |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   |                           |                               |                              |                                      |                    |                   | _ |
| COORDINATOR/SUPERVISOR<br>(SCA)                   | CS(6)  |                  |                        |                      | Ť              |               |                 | P7                                 | 1<br>1               |                        |                         |                          |                                    |                               |                                 |                                  |                                      | İ.                     |                            |                              |                           |                                   |                           |                               | ļ                            | Ì                                    |                    |                   | _ |
| FLIGHT DATA                                       | FD (N) |                  | 1                      | İ                    |                |               | <u> 0</u> .     |                                    | Ì                    | Ī                      |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | 2                         |                               | 2                            | 2                                    |                    |                   |   |
| APPROACH CONTROL<br>(NON-RADAR)                   | AC (8) |                  | 1                      |                      |                |               |                 | •                                  |                      |                        | 1                       |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | ٠                         |                               |                              | •                                    |                    |                   |   |
| BEPARTURE CONTROL<br>(NON-RABAR)                  | 9C (R) |                  |                        | 1                    |                |               |                 |                                    |                      |                        |                         |                          | Ī                                  |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | ٠                         |                               |                              | •                                    |                    |                   |   |
| COORDINATOR/SUPERVISOR<br>(NON-RADAR)             | C\$(N) |                  |                        | 1                    |                |               |                 |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | 2                         | 2                             | 2                            | 2                                    |                    |                   |   |
| FLIGHT DATA<br>(RADAR)                            | FB(R)  |                  | 1                      | 1                    | -              |               |                 | 1                                  |                      |                        |                         |                          |                                    |                               |                                 |                                  | Ι                                    |                        |                            |                              |                           |                                   | ٠                         |                               |                              | •                                    |                    |                   |   |
| APPROACH CONTROL<br>(RABAR)                       | AC (R) |                  | 1 .                    | 1                    | 1              |               |                 | 1                                  |                      | t                      |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | •                         |                               |                              | •                                    |                    |                   |   |
| DEPARTURE CONTROL<br>(RADAR)                      | BC(A)  |                  |                        |                      |                |               |                 |                                    |                      |                        |                         | ĺ                        |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | ٠                         |                               | •                            | •                                    |                    |                   |   |
| ARRIVAL CONTROL<br>(RABAR)                        | AR(R)  |                  |                        | <u> </u>             | 1              |               |                 |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   |                           |                               | •                            |                                      |                    |                   |   |
| COORDINATOR/SUPERVISOR<br>(RABAR)                 | CS(R)  | 1                | -                      | 1                    | 1              |               |                 |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | •                         | •                             | •                            | •                                    |                    |                   |   |
| FLIGHT BATA<br>(AM RANGE)                         | FB(A)  | •                |                        | 1                    |                | •             | •               | •                                  | •                    |                        |                         |                          |                                    | 2                             | •                               | •                                | 2                                    | •                      | •                          | •                            |                           | •                                 |                           | •                             | •                            | •                                    | •                  |                   |   |
| MISSION CONTROL<br>(AIR RANGE)                    | MC(A)  |                  |                        |                      |                | Ī             | •               |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  | 2                                    |                        |                            |                              |                           | •                                 | •                         |                               | •                            | •                                    |                    | _                 |   |
| AREA CONTROL<br>(AIR RANGE)                       | AC (A) | 1                |                        |                      |                |               | •               |                                    |                      |                        |                         |                          |                                    | 2                             |                                 |                                  | 2                                    | ٠                      | •                          | •                            | •                         | •                                 | •                         | •                             |                              | •                                    |                    |                   |   |
| COORDINATOR/SUPERVISOR<br>(AIR RANGE)             | CSIAJ  | •                |                        |                      |                |               | •               | •                                  | •                    |                        |                         |                          |                                    | 2                             | •                               | •                                |                                      | •                      | •                          | •                            |                           | •                                 | •                         | •                             | •                            |                                      | •                  |                   |   |
| WEATHER<br>SERVICE                                | wx     | 1                | 1                      | 1                    |                |               | 1               | 1                                  |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   | ٠                         |                               |                              | •                                    |                    |                   |   |
| T NAMEJE II T<br>Liike                            | TL.    | Ī                | 1                      | 1                    | 1              | 1             |                 |                                    |                      |                        |                         |                          |                                    |                               |                                 |                                  |                                      |                        |                            |                              |                           |                                   |                           |                               |                              |                                      |                    |                   |   |
| AIR TERMINAL                                      | AT     | 1-               | 1                      | 1                    | 1              |               |                 | 1                                  |                      | T                      | T                       | Γ                        |                                    |                               |                                 |                                  |                                      |                        |                            |                              | 1                         | -                                 |                           |                               |                              |                                      |                    |                   |   |

#### ATCF COMMUNICATIONS STANDARD ATCF CLASS VA & VB

I REQUITED & AN TERMINAL INCORPORATED 2 REQUIRED & TERMINAL IFR SERVICE NOT PROVIDED FROM TOWER CAD

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Enclosure (1) ATTACHMENT G

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|          |                                       | 1                | ŕ—                     |                      |
|----------|---------------------------------------|------------------|------------------------|----------------------|
| CRIAN    | (AIR RANGE)<br>COORDINATOR/SUPERVISOR |                  |                        |                      |
| (V) 34   | AREA CONTROL<br>AREA CONTROL          | •                | •                      |                      |
| NC(V)    | (VIN UVINGE)<br>WIZZION CONLUGT       | •                | •                      |                      |
| (V) 0J   | ATAB THEN<br>(JOHAN MA)               |                  |                        |                      |
| CB(W)    | COORDIMATOR/SUPERVISOR<br>(RADAR)     |                  |                        |                      |
| (N) NA   | ARAIVAL CONTROL<br>(RADAR)            | ~                |                        |                      |
| (1)))(1) | DEFARTARE CONTROL<br>(RADAR)          | ~                | ~                      |                      |
| (N) 3A   | APPROACH CONTROL<br>(Radar)           | ~                | ~                      |                      |
| 10(K)    | ATAS THENT                            |                  |                        |                      |
| C2(III)  | (NON-WDPH)<br>COONDINVLOU\SILEHAIZON  |                  |                        |                      |
| (N) 30   | DEPARTURE CONTROL<br>(NON-RADAR)      |                  |                        |                      |
| VC(R)    | APPROACH CONTROL<br>(NON-NGAR)        |                  |                        |                      |
| ED (M)   | ATAG THRLIT<br>(RAGAR-NOW)            |                  |                        |                      |
| (9)83    | (DCV)<br>COOVDIWYLOV\SNLEVAISOV       |                  |                        |                      |
| (3) AA   | ARRIVAL CONTROL<br>(SCA)              | -                | -                      |                      |
| FC(8)    | (VCT3)<br>LINVE CONTROL               | -                | -                      | -                    |
| FC(P)    | PINAL CONTROL<br>(RAS)                | -                | -                      | -                    |
| (B) G4   | FLIGHT DATA<br>(SCA)                  |                  |                        |                      |
| (1)83    | (LOMER)<br>Cookdimetor/Supervisor     |                  |                        |                      |
| 34       | PROJECT CONTROL                       |                  |                        |                      |
| วา       | LOCAL CONTROL                         |                  |                        |                      |
| 38       | enoung control                        |                  |                        |                      |
| CB       | DEFIAEWA<br>CREWWWICE                 |                  |                        |                      |
| (1)01    | FLIGHT DATA                           |                  |                        |                      |
| 10       | ASHOTAQUE THOUS                       |                  |                        |                      |
|          |                                       | URCRAFT LOCATION | URCRAFT IDENTIFICATION | AIRCRAFT POSITIONING |
|          |                                       | ARCI             | ARC                    | AIRC                 |

ATCF EQUIPMENT STANDARD CLASS VA & VB

PURPOSE: AIRCRAFT CONTROL

FUNCTION: DISPLAYS

Enclosure (1) ATTACHMENT G

REQUIRED Required if Low Approach and Landing Service Incorporated Required if terminal Area control Service Incorporated

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KEY.

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| C2(V)   | COORDIMETOR/SUPE<br>(Alm RANGE) | •                   | •    | •                       | •       |   |
|---------|---------------------------------|---------------------|------|-------------------------|---------|---|
| (4)36   | SOUTHOL ASRA<br>(SOUTH RIA)     | •                   | •    |                         | •       |   |
| WC(V)   | IVIN NANGE)<br>MISSION CONTROL  | •                   | •    | •                       | •       |   |
| (V) 61  | ATAG TNBLIT<br>(38MAR RIA)      |                     | •    |                         |         |   |
| C2(U)   | COORDINATOR/SUPE                | ~                   | ~    |                         | ~       |   |
| (#) RA  | ARRIVAL CONTROL<br>(RADAR)      | -                   | ~    | ~                       | ~       |   |
| (W) DQ  | (KASAR)<br>BEPARTURE CONTRO     | ~                   | ~    |                         | ~       |   |
| (B) 34  | APPROACH CONTROL<br>(RAGAR)     | -                   | -    |                         | ~       |   |
| (1)44   | ATAR THEIT<br>(RAGAR)           | $\top$              | -    |                         |         |   |
| C2(II)  | (NOR-RADA/SUPE                  |                     |      |                         |         |   |
| DC(III) | (NON-RADAR)<br>(NON-RADAR)      |                     |      |                         |         |   |
| VC(8)   | APPROACH CONTROL<br>(ROM-RADAR) |                     |      |                         |         |   |
| (N) Q4  | ATAG THRUT<br>(RAGAR-NON)       | 1                   |      |                         |         |   |
| C2(E)   | (SCA)<br>(SCA)                  |                     | -    |                         |         |   |
| (3) 44  | ARRIVAL CONTROL<br>(SCA)        | -                   | -    | •                       | -       |   |
| (\$124  | (VCLS)<br>FINAL CONTROL         |                     |      | -                       |         |   |
| EC(b)   | FINAL CONTROL<br>(PAR)          | T                   |      | -                       |         |   |
| ED (8)  | FLIGHT BATA<br>(A38)            |                     | -    |                         |         |   |
| CB(L)   | (TOWER)<br>COORDINATOR/SUPER    | •                   | •    | •                       | •       |   |
| 34      | PROJECT CONTROL                 | •                   | •    | •                       | •       |   |
| วา      | TOILINGS TYSET                  | •                   | •    | •                       | •       |   |
| 29      | SADURE CONTROL                  | •                   | •    | •                       | •       |   |
| CD      | BEFIAEKA<br>CTEVYVNCE           |                     | •    |                         |         |   |
| (1)64   | ATAG THOUS<br>(ASWOT)           |                     | •    |                         |         |   |
| 40      | FLIGHT DISPATCHER               |                     | •    | •                       | •       | 2 |
|         |                                 | DAROMETRIC PRESSURE | TIME | WINDSPEED AND DIRECTION | WEATHER |   |

ATCF EQUIPMENT STANDARD CLASS VA & VB

PURPOSE: INFORMATION SOURCES

FUNCTION: DISPLAYS

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Enclosure (1) ATTACHMENT G

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REQUIRED
 REQUIRED IF LOW APPROACH AND LANDING SERVICE INCORPORATED
 REQUIRED IF TERMINAL AREA CONTROL SERVICE INCORPORATED

KEY.

REQUIRED
 REQUIRED IF LOW APPROACH AND LANDING SERVICE INCORPORATED
 REQUIRED IF TERMINAL AREA CONTROL SERVICE INCORPORATED

KEY:

|                  |                                                       | FLIGHT PROGRESS RECORD | FLIGHT PROGRESS DISPLAY |
|------------------|-------------------------------------------------------|------------------------|-------------------------|
| 40               | FLIGHT DISPATCHER                                     | •                      | •                       |
| (1)01            | FLIGHT DATA<br>(TOWER)                                | •                      | •                       |
| 60               | DEFIAEWA<br>Crewwwnce                                 | •                      | •                       |
| 39               | CUONND CONTROL                                        | •                      | •                       |
| זי               | LOCAL CONTROL                                         | •                      | •                       |
| 34               | PROJECT CONTROL                                       | •                      | ٠                       |
| (1)SO            | COORDINATOR/SUPERVISOR<br>(TOWER)                     |                        |                         |
| (S)04            | FLIGHT DATA<br>(SCA)                                  | -                      | -                       |
| (d)))            | PINAL CONTROL<br>(MAN)                                |                        |                         |
| FC(S)            | FIMAL CONTROL<br>(ACLS)                               |                        |                         |
| (3) NA           | JONTNOL CONTROL<br>(502)                              | -                      | -                       |
| (2)(0)           | COORDINATOR/SUPERVISOR<br>COORDINATOR/SUPERVISOR      |                        |                         |
| ED (W)           | FLENT DATA<br>(RADAR-NOW)<br>(RADAR-NOW)              |                        |                         |
| VC(N)            | APPROACH CONTROL<br>(NON-RADAR)<br>DEPARTURE CONTROL  |                        |                         |
| DC (N)           | COONDINATOR/SUPERVISOR<br>(NON-RADAR)                 |                        |                         |
| C2(W)            | (AAGAR-NON)<br>ATAG TNBLI                             |                        | ~                       |
| (1)01            | APPROACH CONTROL                                      | 2 2                    | ~                       |
| (1)34            | (RADAR)<br>DEPARTURE CONTROL<br>(RADAR)               | 2                      | 2                       |
| (N) 30<br>(N) NA | JONTHON JAVIANA                                       |                        |                         |
|                  | (MAGAN)<br>NGEIYN39U2\NGTAMGAGA<br>COARDAN)<br>AAAAN) |                        |                         |
| (A)01            | ATAG THOLY<br>ATAG THOLY<br>(308AA AA)                |                        |                         |
| WC(V)            | (AM ANDE)<br>MISSION CONTROL<br>(AM ANNGE)            |                        |                         |
| UT DE            | JONTNOS A3NA<br>(32NAN RIA)                           |                        |                         |
| CSIN             | ACEIVERVISOR<br>COORDINATOR/SUPERVISOR<br>(ADMA RIA)  |                        |                         |

ATCF EQUIPMENT STANDARD CLASS VA & VB

PURPOSE: FLIGHT PROGRESS DOCUMENTATION

FUNCTION: RECORD/DISPLAY

Enclosure (1) ATTACHMENT G