

DUTY AREA

AIRCRAFT COMMUNICATIONS/NAVIGATION/WEAPONS SYSTEMS TECHNICIAN (MOS 6317)

A. GENERAL, OPERATIONAL AND SAFETY DUTIES

1. Operates and maintains applicable shop support/special equipment.
2. Demonstrates/applies applicable safety precautions and procedures in the work center.
3. Demonstrates/applies knowledge of applicable aircraft publications, diagrams, sketches and drawings.
4. Performs tasks on the aircraft using applicable precision measuring equipment.
5. Demonstrates/applies knowledge of procedures required to ensure Electrical Static Discharge (ESD), electrical bonding and Electro-Magnetic Compatibility (EMC).

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

1. Performs required scheduled/unscheduled inspections on applicable systems/components as per Maintenance Requirement Cards.
2. Incorporates applicable technical directives changes/bulletins.
3. Detects corrosion and performs corrosion control.
4. Demonstrates/applies knowledge of principles of operation and performs applicable organizational level maintenance on the electronic equipment control using appropriate maintenance procedures and support/test equipment.
5. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the intercom amplifier control using appropriate maintenance procedures and support/test equipment.
6. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the communication system control using appropriate maintenance procedures and support/test equipment.
7. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the communication system using appropriate maintenance procedures and support/test equipment.
8. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the TACAN system using appropriate maintenance procedures and support/test equipment.
9. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Identify Friend or Foe (IFF) system using appropriate maintenance procedures and support/test equipment.
10. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the instrument landing system using appropriate maintenance procedures and support/test equipment.
11. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the radar beacon system using appropriate maintenance procedures and support/test equipment.
12. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the data link system using appropriate maintenance procedures and support/test equipment.

DA MOS 6317 (Continued)

13. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **auto direction finder set** using appropriate maintenance procedures and support/test equipment.
14. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **secure speech system** using appropriate maintenance procedures and support/test equipment.
15. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **video recording system** using appropriate maintenance procedures and support/test equipment.
16. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **countermeasures dispensing system** using appropriate maintenance procedures and support/test equipment.
17. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **deceptive countermeasures system** using appropriate maintenance procedures and support/test equipment.
18. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **radar warning system** using appropriate maintenance procedures and support/test equipment.
19. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **interference blanker system** using appropriate maintenance procedures and support/test equipment.
20. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **electronic altimeter system** using appropriate maintenance procedures and support/test equipment.
21. Demonstrates/applies knowledge of principles of **wire repair** and performs applicable organizational level maintenance of aircraft wiring using appropriate maintenance procedures and support/test equipment.
22. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **multipurpose display group** using appropriate maintenance procedures and support/test equipment.
23. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **radar system** using appropriate maintenance procedures and support/test equipment.
24. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **radar liquid cooling system** using appropriate maintenance procedures and support/test equipment.
25. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **laser detector tracker system** using appropriate maintenance procedures and support/test equipment.
26. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **forward looking infrared system** using appropriate maintenance procedures and support/test equipment.
27. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **strike camera system** using appropriate maintenance procedures and support/test equipment.
28. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **mission computer system** using appropriate maintenance procedures and support/test equipment.
29. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **stores management system** using appropriate maintenance procedures and support/test equipment.
30. Performs **bore sight of associated aircraft systems** using appropriate maintenance procedures and support/test equipment.
31. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **navigation infrared receiving system** using appropriate maintenance procedures and support/test equipment.
32. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **digital map set** using appropriate maintenance procedures and support/test equipment.

DA MOS 6317 (continued)

33. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **maintenance status display & recording system** using appropriate maintenance procedures and support/test equipment.
34. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **flight incident recording and monitoring system** using appropriate maintenance procedures and support/test equipment.
35. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **ATARS system** using appropriate maintenance procedures and support/test equipment.

SKILL PROGRESSION LEVEL DEFINITIONS

LEVEL I: An asterisk in level I indicates the task is taught at the "Entry Level (A) School".

Level II: An asterisk in level II indicates the task is taught at the NAMTRAGRU DET. Other tasks in level II not indicated with an asterisk will be signed off when exposed to the individual for the first time. All subsequent training which the Marine performs after initial exposure should be annotated on the OPNAV 4790/33 form until he/she is signed off in level III.

LEVEL III: An asterisk in level III indicates the task is considered training essential. A sign-off in level III indicates the Marine can perform that task w/o direct supervision. The unit is responsible for these sign-off's.

LEVEL IV: Used by the unit to indicate an individual is advanced in technical and supervisory functions. Prior to sign-off, all training essential and training optional tasks in level III must have been signed-off. Only one sign-off for the Duty Area is required.

Sign-off blanks: (MO/YR)/(INDIVIDUAL'S INITIALS)/(SUPERVISOR'S INITIALS)

Note: Refer to MCO P4790.20\_ for further clarification.

**INDIVIDUAL DUTY AREA QUALIFICATION SUMMARY**  
**AIRCRAFT COMMUNICATIONS/NAVIGATION/WEAPONS SYSTEMS TECHNICIAN (MOS 6317)**

NAME/SSN \_\_\_\_\_ Granted MOS 6311 \_\_\_\_\_ / \_\_\_\_\_ Level II Completed \_\_\_\_\_ / \_\_\_\_\_  
Granted MOS 6317 \_\_\_\_\_ / \_\_\_\_\_ Level III Completed \_\_\_\_\_ / \_\_\_\_\_  
Level IV Completed \_\_\_\_\_ / \_\_\_\_\_

DUTY #	DUTY DESCRIPTION	LEVEL I		LEVEL II		LEVEL III		LEVEL IV	
		DATE	/ SIGN						
A. GENERAL, OPERATIONAL AND SAFETY DUTIES		XX		XX		XX		XX	
A.1 SUPPORT/SPECIAL EQUIPMENT		XXXXXXXXXXXXXXXXXXXX		/		/		/	
A.2 SAFETY PRECAUTIONS AND PROCEDURES IN THE WORK CENTER		/		/		/		/	
A.3 AIRCRAFT PUBLICATIONS, DIAGRAMS, SKETCHES AND DRAWINGS		/		/		/		/	
A.4 PRECISION MEASURING EQUIPMENT		/		/		/		/	
A.5 ELECTRICAL STATIC DISCHARGE (ESD), ELECTRICAL BONDING AND ELECTROMAGNETIC COMPATIBILITY (EMC)		/		/		/		/	
B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES		XX		XX		XX		XX	
B.1 SCHEDULED/UNSCHEDULED INSPECTIONS		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		/		/	
B.2 TECHNICAL DIRECTIVES CHANGES/BULLETINS		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		/		/	
B.3 CORROSION CONTROL		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		/		/	
B.4 ELECTRONIC EQUIPMENT CONTROL		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.5 INTERCOMM AMPLIFIER CONTROL		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.6 COMMUNICATION SYSTEM CONTROL		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.7 COMMUNICATION SYSTEM		/		/		/		/	
B.8 TACAN SYSTEM		/		/		/		/	
B.9 IDENTIFY FRIEND OR FOE (IFF) SYSTEM		/		/		/		/	
B.10 INSTRUMENT LANDING SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.11 RADAR BEACON SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.12 DATA LINK SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.13 AUTO DIRECTION FINDER SET		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.14 SECURE SPEECH SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.15 VIDEO RECORDING SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.16 COUNTERMEASURES DISPENSING SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.17 DECEPTIVE COUNTERMEASURES SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.18 RADAR WARNING SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.19 INTERFERENCE BLANKER SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.20 ELECTRONIC ALTIMETER SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.21 WIRE REPAIR		/		/		/		/	
B.22 MULTIPURPOSE DISPLAY GROUP		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.23 RADAR SYSTEM		/		/		/		/	
B.24 RADAR LIQUID COOLING SYSTEM		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		/		/	
B.25 LASER DETECTOR TRACKER SYSTEM		XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.26 FORWARD LOOKING INFRARED SYSTEM		/		/		/		/	

IQS, MOS 6317 (Continued)

DUTY #	DUTY DESCRIPTION	LEVEL I		LEVEL II		LEVEL III		LEVEL IV	
		DATE	/ SIGN	DATE	/ SIGN	DATE	/ SIGN	DATE	/ SIGN
B.27	STRIKE CAMERA SYSTEM	XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.28	MISSION COMPUTER SYSTEM	XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.29	STORES MANAGEMENT SYSTEM	XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.30	BORESIGHT OF ASSOCIATED AIRCRAFT SYSTEMS	XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.31	NAVIGATION INFRARED RECEIVING SYSTEM	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		/		/	
B.32	DIGITAL MAP SET	XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.33	MAINTENANCE STATUS DISPLAY & RECORDING SYSTEM	XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.34	FLIGHT INCIDENT RECORDING AND MONITORING SYSTEM	XXXXXXXXXXXXXXXXXXXX		/		/		/	
B.35	ATARS SYSTEM	XXXXXXXXXXXXXXXXXXXX		/		/		/	

INDIVIDUAL QUALIFICATION RECORD  
AIRCRAFT COMMUNICATIONS/NAVIGATION/WEAPONS SYSTEMS TECHNICIAN (MOS 6317)

**A. GENERAL, OPERATIONAL AND SAFETY DUTIES**

A.1 Operates and maintains applicable shop support/special equipment.

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV	
A	F/A-18 utility power adapter, 74D421139-1001	A1-F18AC-LMM-000	*	/ /	*	/ /	
B	Portable air cylinder, 960A80D1	A1-F18AC-LMM-000		/ /	*	/ /	
C	Heating tool, HT-900	A1-F18AC-WRM-000	*	/ /	*	/ /	
D	Wire repair kit, Kennedy	A1-F18AC-WRM-000	*	/ /	*	/ /	
E	Bomb hoisting unit, HLU-288/E	AG-420BO-MRC-000 A1-F18AC-744-300		*	/ /	*	/ /
F	Hoisting adapter, AN/AAS-38	AG-000KC-GSE-000 A1-F18AC-744-300		*	/ /	*	/ /
G	Hoisting beam, AN/AAS-38	A1-F18AC-744-300		*	/ /	*	/ /
H	Aircraft weapon skid, AERO 21C	NA 19-15BC-13 NA 19-600-75-6-1 A1-F18AC-744-300		*	/ /	/ /	

A.2 Demonstrates/applies applicable safety precautions and procedures in the work center.

A	Ground occupational safety and health programs in specific areas					
B	Shop emergency procedures					
B-1	Types of fire extinguishers	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		/ /	/ /	
B-2	Emergency eyewash procedures	Local Instr		/ /	/ /	
C	Emergency reclamation	OPNAVINST 4790.2 NA 01-1A-509 NA 16-1-540 Local Instr		/ /	/ /	
D	Aircraft Safety					
D-1	Canopy safety	A1-F18AC-120-100	*	/ /	*	/ /
D-2	Ejection seat safety	A1-F18AC-120-100	*	/ /	*	/ /
D-3	Boarding ladder operation	A1-F18AC-LMM-000	*	/ /	*	/ /
D-4	Controls/switches/indicators & normal position	A1-F18AC-LMM-000	*	/ /	*	/ /
E	Line Maintenance Emergency Procedures	A1-F18AC-LMM-020	*	/ /	*	/ /
F	General housekeeping	OSHA 29 CFR 1910	*	*	/ /	
G	Shop & Equipment Safety	OPNAVINST 4790.2	*	/ /	*	/ /
H	Composite Material Safety	OSHA 29 CFR 1910		/ /	*	/ /
I	Gas Free Engineering	OPNAVINST 4790.2		/ /	*	/ /

A.3 Demonstrates/applies knowledge of applicable aircraft publications, diagrams, sketches and drawings.

A	General Aircraft Information	A1-F18AC-GAI-000				
A-1	Multipurpose Display Group	A1-F18AC-745-100		*	/	/
A-2	Digital map set	A1-F18AG-731-100		*	/	/
A-3	Radar System	A1-F18AC-742-100		*	/	/
A-4	LASER Detector Tracker System	A1-F18AC-743-100		*	/	/
A-5	Navigation infrared receiving system	A1-F18AC-746-100		*	/	/
A-6	Forward Looking Infrared System	A1-F18AC-744-100		*	/	/
A-7	Strike Camera System	A1-F18AC-743-100		*	/	/
A-8	Mission Computer System	A1-F18AC-741-100 A1-F18AC-741-110 A1-F18AC-741-120		*	/	/
A-9	Stores Management System	A1-F18AC-740-100		*	/	/
A-10	Environmental Control Systems	A1-F18AC-410-100		/	/	*
B	Principles of Operation Manuals					
B-1	Electronic Equipment Control	A1-F18AC-741-100		*	/	/
B-2	Intercommunication Amplifier Control	A1-F18AC-600-100		*	/	/
B-3	Control Converter	A1-F18AC-741-100		*	/	/
B-4	Communication System	A1-F18AC-600-100		*	/	/
B-5	TACAN System	A1-F18AC-600-100		*	/	/
B-6	IFF System	A1-F18AC-600-100		*	/	/
B-7	Instrument Landing System	A1-F18AC-630-100		*	/	/
B-8	Radar Beacon System	A1-F18AC-630-100		*	/	/
B-9	Data Link System	A1-F18AC-630-100 A1-F18AC-630-110		*	/	/
B-10	Auto Direction Finder Set	A1-F18AC-600-100		*	/	/
B-11	Secure Speech System	A1-F18AC-600-100		*	/	/
B-12	Video Recording System	A1-F18AC-770-100		*	/	/
B-13	Countermeasures Dispensing System	A1-F18AC-760-100		*	/	/
B-14	Deceptive Countermeasures System	A1-F18AC-760-100		*	/	/
B-15	Radar Warning System	A1-F18AC-760-100		*	/	/
B-16	Interference Blanker System	A1-F18AC-760-100		*	/	/
B-17	Electronic Altimeter System	A1-F18AC-600-100		*	/	/
B-18	Multipurpose Display Group	A1-F18AG-745-200		*	/	/
B-19	Digital map set	A1-F18AG-731-200		*	/	/
B-20	Radar System	A1-F18AC-742-200		*	/	/
B-21	LASER Detector Tracker System	A1-F18AC-743-200		*	/	/
B-22	Forward Looking Infrared System	A1-F18AC-744-200		*	/	/
B-23	Navigation infrared receiving system	A1-F18A-731-200		*	/	/
B-24	Strike Camera System	A1-F18AC-743-200		*	/	/
B-25	Mission Computer System	A1-F18AC-741-120 A1-F18AC-741-200		*	/	/
B-26	Stores Management System	A1-F18AC-740-200 A1-F18AC-740-210 A1-F18AC-740-220		*	/	/
B-27	Maintenance Status Display & Recording System	A1-F18AC-580-100		*	/	/

DA A.3 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Testing & Fault Isolate Manuals					
C-1	Electronic Equipment Control	A1-F18AC-741-200	* / /	* / /		
C-2	Inter-Comm Amplifier Control	A1-F18AC-600-200	* / /	* / /		
C-3	Control Converter	A1-F18AC-741-200	* / /	* / /		
C-4	Communication System	A1-F18AC-600-200	* / /	* / /		
C-5	TACAN System	A1-F18AC-600-200	* / /	* / /		
C-6	IFF System	A1-F18AC-600-200	* / /	* / /		
C-7	Instrument Landing System	A1-F18AC-630-200	* / /	* / /		
C-8	Radar Beacon System	A1-F18AC-630-200	* / /	* / /		
C-9	Data Link System	A1-F18AC-630-200	* / /	* / /		
C-10	Auto Direction Finder Set	A1-F18AC-600-200	* / /	* / /		
C-11	Secure Speech System	A1-F18AC-600-200	* / /	* / /		
C-12	Video Recording System	A1-F18AC-770-200	* / /	* / /		
C-13	Countermeasures Dispensing System	A1-F18AC-760-200	* / /	* / /		
C-14	Deceptive Countermeasures System	A1-F18AC-760-200	* / /	* / /		
C-15	Radar Warning System	A1-F18AC-760-200	* / /	* / /		
C-16	Interference Blanker System	A1-F18AC-760-200	* / /	* / /		
C-17	Electronic Altimeter	A1-F18AC-600-200	* / /	* / /		
C-18	Multipurpose Display Group	A1-F18AC-745-300	* / /	* / /		
C-19	Digital map set	A1-F18AG-731-300	* / /	* / /		
C-20	Radar System	A1-F18AC-742-300	* / /	* / /		
C-21	LASER Detector Tracker System	A1-F18AC-743-300	* / /	* / /		
C-22	Forward Looking Infrared System	A1-F18AC-744-300	* / /	* / /		
C-23	Navigation infrared receiving set	A1-F18AG-746-300	* / /	* / /		
C-24	Strike Camera System	A1-F18AC-743-300	* / /	* / /		
C-25	Mission Computer System	A1-F18AC-741-300	* / /	/ /		
C-26	Stores Management System	A1-F18AC-740-300	* / /	/ /		
C-27	Maintenance Status Display & Recording System	A1-F18AC-580-200	* / /	* / /		
D	System Maintenance w/ IPB Manuals					
D-1	Electronic Equipment Control	A1-F18AC-741-300	* / /	* / /		
D-2	Inter-Comm Amplifier Control	A1-F18AC-600-300	* / /	* / /		
D-3	Control Converter	A1-F18AC-741-300	* / /	* / /		
D-4	Communication System	A1-F18AC-600-300	* / /	* / /		
D-5	TACAN System	A1-F18AC-600-300	* / /	* / /		
D-6	IFF System	A1-F18AC-600-300	* / /	* / /		
D-7	Instrument Landing System	A1-F18AC-630-300	* / /	* / /		
D-8	Radar Beacon System	A1-F18AC-630-300	* / /	* / /		
D-9	Data Link System	A1-F18AC-630-300	* / /	* / /		
D-10	Automatic Direction Finder Set	A1-F18AC-600-300	* / /	* / /		
D-11	Secure Speech System	A1-F18AC-600-300	* / /	* / /		
D-12	Video Recording System	A1-F18AC-770-300	* / /	* / /		
D-13	Countermeasures Dispensing System	A1-F18AC-760-300	* / /	* / /		
D-14	Deceptive Countermeasures Systems	A1-F18AC-760-300	* / /	* / /		
D-15	Radar Warning System	A1-F18AC-760-300	* / /	* / /		
D-16	Interference Blanker System	A1-F18AC-760-300	* / /	* / /		
D-17	Electronic Altimeter	A1-F18AC-600-300	* / /	* / /		
D-18	Maintenance Status Display & Recording System	A1-F18AC-580-300	* / /	* / /		

DA A.3 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-19	Multipurpose Display Group	A1-F18AC-745-500		*	/	/
D-20	Digital map set	A1-F18AG-731-500		*	/	/
D-21	Radar System	A1-F18AC-742-500		*	/	/
D-22	LASER Detector Tracker System	A1-F18AC-743-500		*	/	/
D-23	Forward Looking Infrared System	A1-F18AC-744-500		*	/	/
D-24	Navigation infrared receiving set	A1-F18AG-746-500		*	/	/
D-25	Strike Camera System	A1-F18AC-743-500		*	/	/
D-26	Mission Computer System	A1-F18AC-741-500		*	/	/
D-27	Stores Management System	A1-F18AC-740-500 A1-F18AC-740-510 A1-F18AC-740-520		*	/	/
E	System Schematic Manuals					
E-1	Electronic Equipment Control	A1-F18AC-741-500		*	/	/
E-2	Intercommunication Amp Control	A1-F18AC-600-500		*	/	/
E-3	Control Converter	A1-F18AC-741-500		*	/	/
E-4	Communication System	A1-F18AC-600-500		*	/	/
E-5	TACAN System	A1-F18AC-600-500		*	/	/
E-6	IFF System	A1-F18AC-600-500		*	/	/
E-7	Instrument Landing System	A1-F18AC-630-500		*	/	/
E-8	Radar Beacon System	A1-F18AC-630-500		*	/	/
E-9	Data Link	A1-F18AC-630-500 A1-F18AC-630-510		*	/	/
E-10	Automatic Direction Finder Set	A1-F18AC-600-500		*	/	/
E-11	Secure Speech System	A1-F18AC-600-500		*	/	/
E-12	Video Recording System	A1-F18AC-770-500		*	/	/
E-13	Countermeasures Dispensing System	A1-F18AC-760-500		*	/	/
E-14	Deceptive Countermeasures System	A1-F18AC-760-500		*	/	/
E-15	Radar Warning System	A1-F18AC-760-500		*	/	/
E-16	Interference Blanker System	A1-F18AC-760-500		*	/	/
E-17	Electronic Altimeter	A1-F18AC-600-500		*	/	/
E-18	Maintenance Status Display & Recording System	A1-F18AC-580-500		*	/	/
E-19	Line Maintenance Boresighting Data	A1-F18AC-LMM-040		*	/	/
E-20	Parts List Index Manual	A1-F18AC-IPB-450		*	/	/
E-21	Workaround Procedures Manual	A1-F18AC-WAP-000		/	/	/
F	References					
F-1	Aircraft Manual Listing	A1-F18AC-AML-000		*	/	/
F-2	Aircraft Radomes & Antenna Covers	NA 01-1A-22		*	/	/
F-3	Consolidated Hazardous Item List	NAVSUP PUB 4500		/	/	*
F-4	Technical Documentation List	A1-F18AC-AML-000		*	/	/
F-5	Miscellaneous Peculiar Support Equipment	AG-000AC-GSE-000 AG-000AC-GSE-100		*	/	/
G	Fault Isolation Manual	A1-F18AC-FIM-000 A1-F18AC-FIM-010		*	/	/
H	Fault Isolation Manual (Memory Inspection)	A1-F18AC-FIM-100		*	/	/
I	Fault Reporting Manual	A1-F18AC-FRM-000		*	/	/
J	Line Maintenance Manual	A1-F18AC-LMM-000		*	/	/
K	Line Maint Manual (Access Panels)	A1-F18AC-LMM-010		*	/	/

DA A.3 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV	
L	Line Maint Manual (Emer Pro)	A1-F18AC-LMM-020		*	/ / /	*	/ / /
M	Line Maint Manual (Cond Inspect)	A1-F18AC-LMM-030		*	/ / /	*	/ / /
N	Plane Captain's Manual	A1-F18AC-PCM-000		*	/ / /	*	/ / /
O	Periodic Maintenance Information Cards	A1-F18AC-MRC-000		*	/ / /	*	/ / /
P	Daily/Special/Preservation Maintenance Requirement Cards	A1-F18AC-MRC-200		*	/ / /	*	/ / /
Q	Phase Maintenance Requirement Cards	A1-F18AC-MRC-300		/ /	*	/ / /	
R	Wire Diagram Manual	A1-F18AC-WDM-000		*	/ / /	*	/ / /
S	Wire repair Manual	A1-F18AC-WRM-070		*	/ / /	*	/ / /
T	Work Unit Code Manual	A1-F18AC-WUC-800		*	/ / /	*	/ / /
U	General Corrosion Manual	NA 01-1A-509	*	/ / /	*	/ / /	
V	Avionics Corrosion Control Manual	NA 16-1-540	*	*	/ / /	*	/ / /
W	A/C Electrical & Electronic Wiring	NA 01-1A-505	*	/ / /	*	/ / /	
X	Naval Aviation Maintenance Program (NAMP)	OPNAVINST 4790.2 Series		/ /	*	/ / /	
Y	Aircraft Technical Documentation List	A1-F18AC-AML-000		/ /	/ /	/ / /	
Z	Memory Inspect Access Codes	A1-F18AC-FIM-100 A1-F18AC-FIM-110		*	/ / /	*	/ / /
AA	Fault Reporting Manual	A1-F18AC-FRM-010		*	/ / /	*	/ / /
BB	Line Maintenance Conditional Inspections	A1-F18AC-LMM-030		/ /	*	/ / /	
CC	Software Configuration Manual	A1-F18AC-SCM-000		*	/ / /	*	/ / /
DD	Safety Manual	NAVOSH 5100 series		/ /	*	/ / /	
EE	Technical Manual Program	NA 00-25-100		/ /	/ /	/ / /	
FF	Naval Aeronautics Publication List	NA 00-500 series		/ /	/ /	/ / /	

A.4 Performs tasks on the aircraft using applicable precision measuring equipment.

A	Operates proximity switch control, 74D420030-1001	A1-F18AC-LMM-000		*	/ / /	*	/ / /
B	Operates fluke multimeter 77/AN	MFG Pub	*	*	/ / /	*	/ / /
C	Operates AN/MLV-607(V)5 computer, memory loader-verifier test set	A1-F18AC-SCM-000		*	/ / /	*	/ / /
D	Operates TACAN test set, AN/URM-101B	A1-F18AC-600-200		*	/ / /	/ /	/ / /
E	Operates memory loader/verifier AN/AMLV	A1-F18AC-SCM-000		*	/ / /	/ /	/ / /
F	Operates IFF test set, AN/APM-378	A1-F18AC-600-200		*	/ / /	/ /	/ / /
G	Operates VHF-UHF signal generator, 3000-200	A1-F18AC-600-200	*	*	/ / /	/ /	/ / /
H	Radar beacon test equipment						
H-1	Operates test set, AN/APM-230B	A1-F18AC-630-200		*	/ / /	/ /	/ / /
I	Countermeasures dispenser test set						
I-1	Operates dispenser test set, AN/ALM-70A	A1-F18AC-760-200		*	/ / /	*	/ / /
I-2	Operates dispenser test set, AN/ALM-225	A1-F18AC-760-200		*	/ / /	*	/ / /
I-3	Operates test adapters, MX-8455/AN/ALM-70A	A1-F18AC-760-200		*	/ / /	*	/ / /
J	Deceptive countermeasures test set						
J-1	Operates sweep cart, AN/USM-482	A1-F18AC-760-200		*	/ / /	*	/ / /
J-2	Operates sweep cart, pressure test set, 68D240021-1001	A1-F18AC-760-200		*	/ / /	*	/ / /

DA A.4 Continued

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
K	Operates data link test set					
K-1	Operates digital data simulator, SM-511A/ASW	A1-F18AC-630-200	*	/ /	/ /	
K-2	Operates indicator monitor, ID-1956/ASW	A1-F18AC-630-200	*	/ /	/ /	
L	Operates time domain reflectometer textronics 1502-04	A1-F18AC-WRM-000	*	/ /	*	/ /
M	Operates avionics equipment pressurization test adapter, 68D240021-1001	TO-33D-1-101 A1-F18AC-742-200		*	/ /	
P	Operates alignment set boresight, 74D110163-1001	AG-645AC-S92-000 A1-F18AC-LMM-040		*	/ /	
Q	Operates RF power test set, TS-1736/AWM-8	NA 16-30AWM22-1 A1-F18AC-740-200		*	/ /	
R	Operates antenna holding fixture, 74D740007-1001	AG-000AC-GSE-000		*	/ /	
S	Operates torque wrench, 0-150 inch-lbs	A1-F18AC-SRM-XXX		*	/ /	
T	Operates torque wrench, 0-300 inch-lbs	A1-F18AC-SRM-XXX		*	/ /	

A.5 Demonstrates/applies knowledge of procedures required to ensure Electrical Static Discharge (ESD), electrical bonding and Electro-Magnetic Compatibility (EMC).

A	Electrical Static Discharge (ESD) protection	NA 01-1A-23	*	*	/ /	*	/ /	
B	Electrical bonding and Electro-Magnetic Compatibility (EMC) protection	A1-F18AC-WRM-XXX		*	/ /	*	/ /	

INDIVIDUAL QUALIFICATION RECORD  
AIRCRAFT COMMUNICATIONS/NAVIGATION/WEAPONS SYSTEMS TECHNICIAN (MOS 6317)

**B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES**

B.1 Performs required scheduled/unscheduled inspections on applicable systems/components as per maintenance requirement cards.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Periodic Maintenance Information	A1-F18AX-MRC-000		/ /	* / /		
B	Turnaround Checklist Requirement	A1-F18AX-MRC-1XX		/ /	/ /		
C	Daily/Servicing/Special/Preservation/Conditional Requirement	A1-F18AX-MRC-2XX		/ /	* / /		
D	Phase Maintenance Requirement	A1-F18AX-MRC-3XX		/ /	/ /		
E	Performs 14-day inspection	A1-F18AX-MRC-2XX		/ /	* / /		
F	Performs 28-day inspection	A1-F18AX-MRC-2XX		/ /	* / /		
F	Performs 42-day inspection	A1-F18AX-MRC-2XX		/ /	* / /		
G	Performs 84-day inspection	A1-F18AX-MRC-2XX		/ /	* / /		
H	Performs special 364-day inspection	A1-F18AX-MRC-2XX		/ /	* / /		
I	Performs preservation/depreservation inspection	A1-F18AX-MRC-2XX		/ /	* / /		
J	Performs precarrier/pre-deployment inspection	A1-F18AX-LMM-030		/ /	/ /		
K	Performs over-G flight conditional inspection	A1-F18AX-LMM-030		/ /	/ /		
L	Performs acceptance/transfer inspection	OPNAVINST 4790.2		/ /	/ /		
M	Performs gun bay inspection	A1-F18AX-MRC-2XX		/ /	* / /		

B.2 Incorporates applicable technical directives changes/bulletins.

A	Rapid Action Minor Engineering Change (RAMEC) Proposals	NAVAIRINST 5215.10			/ /	* / /	
B	Incorporates avionics changes	OPNAVINST 4790.2			/ /	* / /	
C	Incorporates avionics bulletins	OPNAVINST 4790.2			/ /	* / /	

B.3 Detects corrosion and performs corrosion control.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Performs corrosion detection during all maintenance actions	A1-F18AX-SRM-500 NA 01-1A-509			/ /	* / /	
B	Performs corrosion prevention during all maintenance actions	A1-F18AX-SRM-500 NA 01-1A-509			/ /	* / /	
C	Performs corrective action on corrosion discrepancies	A1-F18AX-SRM-500 NA 01-1A-509			/ /	* / /	
D	Performs corrosion detection/prevention on support equipment	A1-F18AX-SRM-500 NA 01-1A-509			/ /	* / /	

B.4 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the electronic equipment control using appropriate maintenance procedures and support/test equipment

A	Theory of operation						
A-1	Keyboard manual data entry	A1-F18AX-741-100		*	/ /	* / /	
A-2	EMCON function	A1-F18AX-741-100		*	/ /	* / /	
A-3	Power distribution	A1-F18AX-741-100		*	/ /	* / /	
A-4	Data communications	A1-F18AX-741-100		*	/ /	/ /	
A-5	Built-in-test	A1-F18AX-741-100		*	/ /	* / /	
A-6	Systems interface	A1-F18AX-741-100		*	/ /	* / /	
B	Functional check						
B-1	Electronic equipment control	A1-F18AX-741-200		*	/ /	* / /	
C	Fault isolation						
C-1	System failure	A1-F18AX-741-200	67X2200	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R electronic equipment control, C10380/ASQ	A1-F18AX-741-300	67X2200	*	/ /	* / /	

B.5 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the intercom amplifier control using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Comm system interface	A1-F18AX-600-100		*	/ /	* / /	
A-2	Comm control panel function	A1-F18AX-600-100		*	/ /	* / /	
A-3	Systems interface	A1-F18AX-600-100		*	/ /	* / /	
A-4	Power distribution	A1-F18AX-600-100		*	/ /	* / /	
A-5	Built-in test	A1-F18AX-600-100		*	/ /	* / /	
A-6	Weapons tone function	A1-F18AX-600-100		*	/ /	* / /	
B	Functional check						
B-1	Intercomm amplifier control	A1-F18AX-600-200		*	/ /	* / /	
B-2	Performs BIT	A1-F18AX-600-200		*	/ /	* / /	

DA B.5 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Fault isolation						
C-1	System failure	A1-F18AX-600-200	64X1100		* / /	* / /	
D	Organizational maintenance						
D-1	R&R IAC, AM6979/A	A1-F18AX-600-300	64X1100		* / /	* / /	
D-2	R&R communication control panel, 74A870609-1015	A1-F18AX-600-300	64X12		* / /	* / /	

B.6 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the communication system control using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Data interface	A1-F18AX-741-100			* / /	* / /	
A-2	Control functions	A1-F18AX-741-100			* / /	* / /	
A-3	Systems interface	A1-F18AX-741-100			* / /	* / /	
A-4	Power distribution	A1-F18AX-741-100			* / /	* / /	
A-5	Built-in test	A1-F18AX-741-100			* / /	* / /	
A-6	CNI caution function	A1-F18AX-741-100			* / /	* / /	
B	Functional check						
B-1	Performs BIT	A1-F18AX-741-200			* / /	* / /	
C	Fault isolation						
C-1	System failure	A1-F18AX-741-200	67X2100		* / /	* / /	
D	Organizational maintenance						
D-1	R&R CSC, C10382/A	A1-F18AX-741-300	67X2100		* / /	* / /	
D-2	Performs comm system channelization	A1-F18AX-600-100	67X2100		* / /	* / /	

B.7 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the communication system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Modes of operation	A1-F18AX-600-100		*	* / /	* / /	
A-2	Secure speech interface	A1-F18AX-600-100			* / /	* / /	
A-3	Antenna selection function	A1-F18AX-600-100		*	* / /	* / /	
A-4	Power distribution	A1-F18AX-600-100		*	* / /	* / /	
A-5	Built-in test	A1-F18AX-600-100			* / /	* / /	
B	Functional check						
B-1	Communication system	A1-F18AX-600-200			* / /	* / /	
B-2	Performs BIT	A1-F18AX-600-200			* / /	* / /	
C	Fault isolation						
C-1	System failure	A1-F18AX-600-200	62X2000		* / /	* / /	

DA B.7 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Organizational maintenance						
D-1	R&R comm 1 & 2 RT 1250() /ARC	A1-F18AX-600-300	62X2100	*	/ /	*	
D-2	R&R antenna select control panel, 74A800697-1013	A1-F18AX-600-300	67R12	*	/ /	*	
D-3	R&R antenna selector, SA-2292/A	A1-F18AX-600-300	63Y2S	*	/ /	*	
D-4	R&R upper antenna, AS-3557/A	A1-F18AX-600-300	67X28	*	/ /	*	
D-5	R&R lower fwd antenna, AS-3557/A	A1-F18AX-600-300	67X28	*	/ /	*	
D-6	R&R lower aft antenna, AS-3557/A	A1-F18AX-600-300	67X28	*	/ /	*	
D-7	R&R DSC radio F/A-18A+	A1-F18AX-600-300	67X28		/ /	*	/ /

B.8 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **TACAN system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Receive, transmit, air to air operations	A1-F18AX-600-100		*	/ /	/ /	/ /
A-2	X/Y modes	A1-F18AX-600-100		*	/ /	/ /	/ /
A-3	TACAN data entry & position update	A1-F18AX-600-100		*	/ /	*	/ /
A-4	EMCON interface	A1-F18AX-600-100		*	/ /	*	/ /
A-5	Power distribution	A1-F18AX-600-100		*	/ /	*	/ /
A-6	Built-in test	A1-F18AX-600-100		*	/ /	*	/ /
B	Functional check						
B-1	TACAN system	A1-F18AX-600-200		*	/ /	*	/ /
B-2	Performs BIT	A1-F18AX-600-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-600-200	713V000	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R TCN, RT-1159/A	A1-F18AX-600-300	71Y9200	*	/ /	*	/ /
D-2	R&R TCN mount, 74A880669-1001	A1-F18AX-600-300	713V9	*	/ /	/	/
D-3	R&R antenna, AS-3422/ARN-118(V)	A1-F18AX-600-300	713V3	*	/ /	/	/

B.9 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Identify Friend or Foe (IFF) system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Modes 1, 2, 3/A & C operation	A1-F18AX-600-100		*	/ /	*	/ /
A-2	Mode 4 operation	A1-F18AX-600-100		*	/ /	*	/ /
A-3	I/P function	A1-F18AX-600-100		*	/ /	/	/
A-4	Antenna selection operation	A1-F18AX-600-100		*	/ /	*	/ /
A-5	EMCON interface & ADC interface	A1-F18AX-600-100		*	/ /	*	/ /
A-6	Emergency operation	A1-F18AX-600-100		*	/ /	*	/ /
A-7	Power distribution	A1-F18AX-600-100		*	/ /	*	/ /
A-8	Built-in test	A1-F18AX-600-100		*	/ /	*	/ /

DA B.9 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B	Functional check						
B-1	Identify friend or foe system	A1-F18AX-600-200		*	/ /	*	/ /
B-2	Performs BIT	A1-F18AX-600-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-600-200	653A300	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R IFF, RT-1157A/APX-100(V)	A1-F18AX-600-300	653A300	*	/ /	/	/
D-2	R&R computer-transponder, KIT-1A/TSEC	A1-F18AX-600-300	65Y1W	*	/ /	*	/ /
D-3	R&R KIT-1A/TSEC mount, MT-4578/U	A1-F18AX-600-300	65Y2B	*	/ /	/	/
D-4	R&R CIT system components	A1-F18AX-600-300	65000		/ /	*	/ /

B.10 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the instrument landing system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Modes of operation	A1-F18AX-630-100		*	/ /	/	/
A-2	Power distribution	A1-F18AX-630-100		*	/ /	*	/ /
A-3	Built-in-test	A1-F18AX-630-100		*	/ /	/	/
B	Functional check						
B-1	Performs BIT	A1-F18AX-630-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-630-200	71D1000	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R radio receiver R-1379() /ARA-63	A1-F18AX-630-300	71D1100	*	/ /	*	/ /
D-2	R&R receiver mount, 74A880642-1003	A1-F18AX-630-300	71R9H	*	/ /	/	/
D-3	R&R pulse decoder, KY-651() /ARA-63	A1-F18AX-630-300	71D1200	*	/ /	*	/ /
D-4	R&R KU-band antenna, AS3361/ARA-63	A1-F18AX-630-300	71D18	*	/ /	*	/ /
D-5	R&R KU-band waveguide assembly	A1-F18AX-630-300	71R9A	*	/ /	/	/

B.11 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the radar beacon system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Modes of operation	A1-F18AX-630-100		*	/ /	/	/
A-2	EMCON interface	A1-F18AX-630-100		*	/ /	*	/ /
A-3	Power distribution	A1-F18AX-630-100		*	/ /	*	/ /
A-4	Built-in test	A1-F18AX-630-100		*	/ /	/	/
B	Functional check						
B-1	Radar beacon system	A1-F18AX-630-200		*	/ /	*	/ /
B-2	Performs BIT	A1-F18AX-630-200		*	/ /	*	/ /

DA B.11 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Fault isolation						
C-1	System failure	A1-F18AX-630-200	729D100	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R radar receiver, R-1623/APN	A1-F18AX-630-300	72Y1F00	*	/ /	*	/ /
D-2	R&R radar receiver/transmitter, RT-1028/APN	A1-F18AX-630-300	729D100	*	/ /	*	/ /
D-3	R&R R/T mount, 74A880604-2011	A1-F18AX-630-300	72RA4	*	/ /	/	/
D-4	R&R rec mount, 74A880603-2003	A1-F18AX-630-300	72RA6	*	/ /	/	/
D-5	R&R X-band antenna, AS-3017/APN	A1-F18AX-630-300	72Y1V	*	/ /	/	/
D-6	R&R KA-band antenna, AS-3362/APN	A1-F18AX-630-300	72Y1H	*	/ /	*	/ /
D-7	R&R KA-band waveguide assembly	A1-F18AX-630-300	72RA4	*	/ /	*	/ /

B.12 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the data link system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Modes of operation	A1-F18AX-630-100 A1-F18AX-630-110		*	/ /	/	/
A-2	EMCON interface	A1-F18AX-630-100 A1-F18AX-630-110		*	/ /	*	/ /
A-3	Power distribution	A1-F18AX-630-100 A1-F18AX-630-110		*	/ /	*	/ /
A-4	Built-in test	A1-F18AX-630-100 A1-F18AX-630-110		*	/ /	*	/ /
A-5	Universal test message	A1-F18AX-630-100 A1-F18AX-630-110		*	/ /	*	/ /
B	Functional check						
B-1	Data link system	A1-F18AX-630-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-630-200	57X1U00	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R receiver/transmitter/processor RT-1379() /ASW	A1-F18AX-630-300	57X1U00	*	/ /	*	/ /
D-2	R&R band pass filter, F-1472/ARC	A1-F18AX-630-300	67X25	*	/ /	*	/ /
D-3	R&R RTP mount, 74A800801-1019	A1-F18AX-630-300	57X19	*	/ /	/	/

B.13 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the auto direction finder set using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Signal reception operation	A1-F18AX-600-100		*	/ /	*	/ /
A-2	Audio signal/bearing hold processing	A1-F18AX-600-100		*	/ /	*	/ /
A-3	Power distribution	A1-F18AX-600-100		*	/ /	*	/ /
B	Functional check						
B-1	Auto direction finder set	A1-F18AX-600-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-600-200	71Y9100	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R direction finder OA-8697() /ARD	A1-F18AX-600-300	71Y9100	*	/ /	*	/ /
D-2	R&R ADF support assembly, 74A880610-1003	A1-F18AX-600-300	71Y99	*	/ /	/	/
D-3	R&R ADF antenna screen & ground assembly, 74A880659-1001	A1-F18AX-600-300	71Y99	*	/ /	/	/

B.14 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the secure speech system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Cipher operation	A1-F18AX-600-100		*	/ /	*	/ /
A-2	Zeroize operation	A1-F18AX-600-100		*	/ /	*	/ /
A-3	Power distribution	A1-F18AX-600-100		*	/ /	*	/ /
B	Functional check						
B-1	Secure speech system	A1-F18AX-600-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-600-200	6741100	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R KY-58 ctrl panel assy KY58TSEC	A1-F18AX-600-300	67410	*	/ /	*	/ /
D-2	R&R DSC radio	A1-F18AX-600-300	67410	/	/	*	/ /

B.15 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the video recording system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation			*	/ /	/ /	
A-1	Modes of operation	A1-F18AX-770-100		*	/ /	*	/ /
A-2	Video selection	A1-F18AX-770-100		*	/ /	*	/ /
A-3	System operation	A1-F18AX-770-100		*	/ /	*	/ /
A-4	Power distribution	A1-F18AX-770-100		*	/ /	*	/ /
A-5	Built-in test	A1-F18AX-770-100		*	/ /	*	/ /
B	Functional check						
B-1	Video recording system	A1-F18AX-770-200		*	/ /	*	/ /
B-2	Performs BIT	A1-F18AX-770-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-770-200	77X1000	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R television camera MX-10403/AXQ	A1-F18AX-770-300	77X1V00	*	/ /	*	/ /
D-2	R&R audio visual rec, RO-545/AXQ	A1-F18AX-770-300	77X1U	*	/ /	*	/ /
D-3	R&R video relay panel assembly, 74A870637-1001	A1-F18AX-770-300	77R2E	*	/ /	*	/ /
D-4	R&R video cassette	A1-F18AX-770-300	77X10	*	/ /	/	/
D-5	R&R CVRS, V-82	A1-F18AX-770-300	77X1U		/ /	*	/ /

B.16 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the countermeasures dispensing system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	CHAFF flare jammer operation	A1-F18AX-760-100		*	/ /	*	/ /
A-2	Modes of operation	A1-F18AX-760-100		*	/ /	*	/ /
A-3	Power distribution	A1-F18AX-760-100		*	/ /	*	/ /
B	Functional check						
B-1	Countermeasures dispensing system	A1-F18AX-760-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-760-200	766M000	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R electrical switching unit, SA-1874/ALE-39	A1-F18AX-760-300	766M2	*	/ /	*	/ /
D-2	R&R dispenser housing, MX-7721/ALE29E	A1-F18AX-760-300	7665H	*	/ /	/	/
D-3	R&R programmer, MX-9254/ALE-39	A1-F18AX-760-300	766M100	*	/ /	*	/ /
D-4	R&R ECM control panel assembly, 74A800828-1001	A1-F18AX-760-300	76R5Z	*	/ /	*	/ /
D-5	R&R ECM disp switch, 604EN94-S	A1-F18AX-760-300	766M9	*	/ /	/	/
D-6	R&R ALE-47	A1-F18AX-760-300	766000		/ /	*	/ /

B.17 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the deceptive countermeasures system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Modes of operation	A1-F18AX-760-100		*	/ /	*	/ /
A-2	Warning lights interface	A1-F18AX-760-100		*	/ /	*	/ /
A-3	Power distribution	A1-F18AX-760-100		*	/ /	*	/ /
A-4	Built-in test	A1-F18AX-760-100		*	/ /	*	/ /
B	Functional check						
B-1	Perform BIT, ALQ-126A/ALQ-126B	A1-F18AX-760-200		*	/ /	*	/ /
B-2	Performs line/system sweep	A1-F18AX-760-200		*	/ /	*	/ /
B-3	Perform BIT, ALQ-165	A1-F18AX-760-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-760-200	767L000	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R receiver/transmitter, RT-1079() ALQ-126A/B	A1-F18AX-760-300	767L000	*	/ /	*	/ /
D-2	R&R R/T-1079()/ALQ-126 mount, 74A880607-1005	A1-F18AX-760-300	76P32	*	/ /	*	/ /
D-3	R&R cooling air plenum, 74A830734-1019	A1-F18AX-760-300	767K9	*	/ /	*	/ /
D-4	R&R antennas, ALQ-126	A1-F18AX-760-300	767LF	*	/ /	*	/ /
D-5	R&R radomes	A1-F18AX-760-300	76R5J	*	/ /	*	/ /
D-6	R&R couplers	A1-F18AX-760-300	76R5M	*	/ /	*	/ /
D-7	R&R high band suppression filter, F-1471/ALQ-126	A1-F18AX-760-300	76R5S	*	/ /	*	/ /
D-8	R&R associated waveguide	A1-F18AX-760-300	76R5V	*	/ /	*	/ /
D-9	R&R ASPJ system components	A1-F18AX-760-300	76R5V		/ /	*	/ /

B.18 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the radar warning system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	RF detection	A1-F18AX-760-100		*	/ /	*	/ /
A-2	Video processing	A1-F18AX-760-100		*	/ /	*	/ /
A-3	System operation	A1-F18AX-760-100		*	/ /	*	/ /
A-4	Power distribution	A1-F18AX-760-100		*	/ /	*	/ /
A-5	Built-in test	A1-F18AX-760-100		*	/ /	*	/ /
B	Functional check						
B-1	Radar warning system	A1-F18AX-760-200		*	/ /	*	/ /
B-2	Performs BIT	A1-F18AX-760-200		*	/ /	*	/ /
B-3	Performs line/antenna insertion loss & return loss test	A1-F18AX-760-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-760-200	761S000	*	/ /	*	/ /

DA B.18 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Organizational maintenance						
D-1	R&R countermeasures computer, CP-1293/ALR-67(V)	A1-F18AX-760-300	761S100		*	/	/
D-2	R&R CP-1293/ALR-67(V) mount, 74A880652-2003	A1-F18AX-760-300	761S0		*	/	/
D-3	R&R control indicator, C-10250/ALR-67(V)	A1-F18AX-760-300	761S300		*	/	/
D-4	R&R azimuth indicator, IP-1276/ALR-67(V)	A1-F18AX-760-300	761S500		*	/	/
D-5	R&R antennas	A1-F18AX-760-300	761S9		*	/	/
D-6	R&R radar receivers, R-2148/ALR-67(V)	A1-F18AX-760-300	761SB00		*	/	/
D-7	R&R radio frequency transmitter switches, SA-2362/ALR-67(V)	A1-F18AX-760-300	761S9		*	/	/
D-8	R&R fwd band pass filters, F-1539/ALR-67(V)	A1-F18AX-760-300	76X49		*	/	/
D-9	R&R radio receiver couplers, CU-2292/ALR-67(V)	A1-F18AX-760-300	76X59		*	/	/
D-10	R&R integrated antenna, AS-3190/ALR-67(V)	A1-F18AX-760-300	761SC00		*	/	/
D-11	R&R radar receiver, R-2055/ALR-67(V)	A1-F18AX-760-300	761S800		*	/	/

B.19 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the interference blanker system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	System integration	A1-F18AX-760-100		*	/	/	*
A-2	Power distribution	A1-F18AX-760-100		*	/	/	*
A-3	Built-in test	A1-F18AX-760-100		*	/	/	*
B	Functional check						
B-1	Performs BIT	A1-F18AX-760-200		*	/	/	*
C	Fault isolation						
C-1	System failure	A1-F18AX-760-200	76X4000	*	/	/	*
D	Organizational maintenance						
D-1	R&R interference blanker MX-9965/A	A1-F18AX-760-300	76X4500	*	/	/	*

B.20 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the electronic altimeter system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation			*	/ /	/ /	
A-1	Modes of operation	A1-F18AX-600-100		*	/ /	*	/ /
A-2	EMCON interface	A1-F18AX-600-100		*	/ /	*	/ /
A-3	Power distribution	A1-F18AX-600-100		*	/ /	*	/ /
A-4	Built-in test	A1-F18AX-600-100		*	/ /	*	/ /
B	Functional check						
B-1	Performs BIT	A1-F18AX-600-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure	A1-F18AX-600-200	722C000	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R electronic altimeter, RT-1015() / APN-194	A1-F18AX-600-300	7222C100	*	/ /	*	/ /
D-2	R&R height indicator, ID-2163/A	A1-F18AX-600-300	72Y1W00	*	/ /	*	/ /
D-3	R&R antenna, AS-2595/APN-194	A1-F18AX-600-300	722B4	*	/ /	*	/ /

B.21 Demonstrates/applies knowledge of the principles of wire repair and performs applicable organizational level maintenance of aircraft wiring using appropriate maintenance procedures and support/test equipment.

A	Wire repair procedures	A1-F18AX-WRM-XXX		*	/ /	*	/ /
B	Use of wire repair manuals	A1-F18AX-WRM-XXX		*	* / /	*	/ /
C	Use of applicable tools/support equipment	A1-F18AX-WRM-XXX		*	* / /	*	/ /
D	Routing of wires/wire bundles/coax cables	A1-F18AX-WRM-XXX		*	* / /	*	/ /
E	Repair of coaxial connectors	A1-F18AX-WRM-XXX		*	/ /	*	/ /
F	Repair/replacement of cannon plugs	A1-F18AX-WRM-XXX		*	/ /	*	/ /
G	Installation of splices/terminals/end caps	A1-F18AX-WRM-XXX		*	/ /	*	/ /
H	Repair of shielded/non-shielded conductors	A1-F18AX-WRM-XXX			/ /	*	/ /
I	Environmental sealing of cables/ components	A1-F18AX-WRM-XXX			/ /	*	/ /
J	Installation of insulation sleeving/protective boots	A1-F18AX-WRM-XXX			/ /	*	/ /

B.22 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the multipurpose display group using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Multipurpose display group	A1-F18AX-745-100		*	/ /	*	/ /
A-2	BIT	A1-F18AX-745-100 A1-F18AX-746-100		*	/ /	/	/
A-3	Power distribution	A1-F18AX-745-100		*	/ /	*	/ /
B	Functional check						
B-1	BIT MDG	A1-F18AX-745-200		*	/ /	*	/ /

DA B.22 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Fault isolation						
C-1	System failure within multi-purpose display group	A1-F18AX-745-200	74D60		*	/	/
D	Organizational maintenance						
D-1	R&R digital display indicator	A1-F18AX-745-300	7468100		*	/	/
D-2	R&R HUD	A1-F18AX-745-300	74D60		*	/	/
D-3	R&R HUD desiccant assembly	A1-F18AX-745-300	74D61C0		*	/	/
D-4	R&R horizontal indicator/multi purpose color display	A1-F18AX-745-300	73X3200		*	/	/
D-5	R&R moving map in HI	A1-F18AX-745-300	73X3900		*	/	/
D-6	R&R film traction module transit pack	A1-F18AX-745-300	73X3900		*	/	/
D-7	R&R HI/multi purpose color display jack screw	A1-F18AX-745-300	73X3200		*	/	/
D-8	R&R HI/multi purpose color display captive bolt	A1-F18AX-745-300	73X3200		*	/	/
D-9	R&R HUD jack screw	A1-F18AX-745-300	734D60		*	/	/
D-10	R&R HUD captive bolt	A1-F18AX-745-300	734D600		*	/	/

B.23 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the radar system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Radar system	A1-F18AX-742-100		*	*	/	/
A-2	BIT	A1-F18AX-742-100			*	/	/
B	Functional check						
B-1	BIT radar system	A1-F18AX-742-200			*	/	/
C	Fault isolation						
C-1	System failure within radar system	A1-F18AX-742-200	742GO	*	*	/	/
D	Organizational maintenance						
D-1	R&R AS3254/APG-65 antenna	A1-F18AX-742-300	742G600		*	/	/
D-2	R&R AIM-7 transmission line coupler, CU2265/APG-65	A1-F18AX-740-300	742GB			/	/
D-3	R&R servo electric gimbal assembly	A1-F18AX-742-300	742G6AO			/	/
D-4	R&R transmitter	A1-F18AX-742-300	742G100		*	/	/
D-5	R&R receiver exciter	A1-F18AX-742-300	742G200		*	/	/
D-6	R&R radar target data processor	A1-F18AX-742-300	742G300		*	/	/
D-7	R&R computer power supply	A1-F18AX-742-300	742G400		*	/	/
D-8	R&R elec equip rack	A1-F18AX-742-300	742G700			/	/
D-9	R&R pantograph assembly	A1-F18AX-742-300	742G715			*	/
D-10	R&R waveguide assembly	A1-F18AX-742-300	74R62		*	/	/
D-11	R&R map gain control panel assy	A1-F18AX-742-300	74R64			/	/
D-12	R&R SNSR POD control panel assy	A1-F18AX-742-300	74R61		*	/	/

DA B.23 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-13	R&R gun gas seal	A1-F18AX-742-300	742G714		/ /	/ /	
D-14	R&R AIM-7 fuselage antenna	A1-F18AX-740-300	742GA		/ /	* / /	
D-15	R&R AIM-7 wing antenna	A1-F18AX-740-300	74Y4L		/ /	* / /	
D-16	R&R throttle grip assembly	A1-F18AX-270-300	29131D0	*	/ /	* / /	
D-17	R&R radar data processor (APG-73)	A1-F18AX-742-300	74B2100		/ /	* / /	
D-18	R&R radar power supply (APG-73)	A1-F18AX-742-300	74B2300		/ /	* / /	
D-19	R&R radar receiver (APG-73)	A1-F18AX-742-300	74B2400		/ /	* / /	

B.24 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Radar Liquid Cooling System (RLCS) using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	RLCS	A1-F18AX-410-100	41170		/ /	/ /	
B	Functional check						
B-1	RLCS	A1-F18AX-410-200	41170		/ /	/ /	
C	Organizational maintenance						
C-1	Reservice using liquid coolant make-up unit 2001MC				/ /	* / /	

B.25 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the laser detector tracker system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Laser detector tracker system	A1-F18AX-743-100		*	/ /	* / /	
A-2	BIT	A1-F18AX-743-100		*	/ /	/ /	
A-3	Power distribution system	A1-F18AX-743-100	74D70	*	/ /	* / /	
B	Functional check						
B-1	BIT LDTS	A1-F18AX-743-200		*	/ /	* / /	
C	Fault isolation						
C-1	System failure within laser detector tracker system	A1-F18AX-743-200	74D70	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R laser detector	A1-F18AX-743-300	74D7100	*	/ /	* / /	
D-2	R&R interconnecting box	A1-F18AX-743-300	74D7200	*	/ /	* / /	
D-3	R&R camera drive mounting	A1-F18AX-743-300	74D7300	*	/ /	* / /	
D-4	R&R mounting adapter	A1-F18AX-743-300	74D7500	*	/ /	* / /	

B.26 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the forward-looking infrared system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Fwd looking infrared system	A1-F18AX-744-100		*	/ /	*	/ /
A-2	BIT	A1-F18AX-744-100		*	/ /	/	/
A-3	Power distribution system	A1-F18AX-744-100	74D90	*	/ /	*	/ /
B	Functional check						
B-1	BIT FLIR	A1-F18AX-744-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure within fwd looking infrared system	A1-F18AX-744-200	74D90	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R FLIR pod	A1-F18AX-744-300	74D90	*	/ /	*	/ /
D-2	R&R optics stabilizer group assembly	A1-F18AX-744-300	74D9C	*	/ /	*	/ /
D-3	R&R roll drive motor	A1-F18AX-744-300	74D97	*	/ /	*	/ /
D-4	R&R roll drive amplifier	A1-F18AX-744-300	74D9800	*	/ /	*	/ /
D-5	R&R infrared receiver	A1-F18AX-744-300	74D9300	*	/ /	*	/ /
D-6	R&R power supply	A1-F18AX-744-300	74D9400	*	/ /	*	/ /
D-7	R&R controller processor	A1-F18AX-744-300	74D9500	*	/ /	*	/ /
D-8	R&R servo controller	A1-F18AX-744-300	74D9600	*	/ /	*	/ /
D-9	R&R environmental control valve assy	A1-F18AX-744-300	74D9B50		/ /	*	/ /
D-10	R&R environmental control tube assembly	A1-F18AX-744-300	74D9B40		/ /	*	/ /
D-11	R&R temperature control	A1-F18AX-744-300	74D9AO0		/ /	*	/ /
D-12	R&R heat exchanger blowers	A1-F18AX-744-300	74D99		/ /	*	/ /
D-13	R&R desiccant cartridge	A1-F18AX-744-300	74D99		/ /	*	/ /
D-14	R&R environmental control electrical assembly	A1-F18AX-744-300	74D9BDO		/ /	*	/ /
D-15	R&R optics stabilizer	A1-F18AX-744-300	74D0200	*	/ /	*	/ /
D-16	R&R pod fwd section	A1-F18AX-744-300	74D9100	*	/ /	*	/ /
D-17	R&R pod aft section	A1-F18AX-744-300	74D9B00	*	/ /	*	/ /
D-18	R&R laser power supply	A1-F18AX-744-300	74D9B00	*	/ /	*	/ /
D-19	R&R laser transmitters	A1-F18AX-744-300	74D9B00	*	/ /	*	/ /

B.27 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the strike camera system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	BIT	A1-F18AX-743-100			/ /	/	/
A-2	Strike camera system	A1-F18AX-743-100		*	/ /	*	/ /
B	Functional check						
B-1	BIT strike camera system	A1-F18AX-743-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure within strike camera system	A1-F18AX-743-200	77A10	*	/ /	*	/ /

DA B.27 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Organizational maintenance						
D-1	R&R KB35A strike recording still picture camera	A1-F18AX-743-300	77A1Z00		*	/	/
D-2	R&R film in KB35A camera	A1-F18AX-743-300	77A19		*	/	/

B.28 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the mission computer system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Mission computer system	A1-F18AX-741-100 A1-F18AX-741-110/C A1-F18AX-741-120/C			*	/	/
A-2	Power distribution	A1-F18AX-741-100	7415Y00		*	/	/
B	Functional check						
B-1	Power up test	A1-F18AX-741-200			*	/	/
C	Fault isolation						
C-1	System failure within mission computer system	A1-F18AX-741-200			*	/	/
D	Organizational maintenance						
D-1	R&R mission computer	A1-F18AX-741-300			*	/	/
D-2	R&R MUX system impedance matching network	A1-F18AX-741-300			/	/	
D-3	R&R mission computer/hydraulic ISOL control panel assembly	A1-F18AX-741-300			*	/	/
D-4	Loads/verifies memory of mission computer	A1-F18AX-SCM-000			*	/	/

B.29 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the stores management system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Stores management system	A1-F18AX-740-100 A1-F18AX-740-110/C A1-F18AX-740-120/C			*	/	/
A-2	Power distribution	A1-F18AX-740-100			*	/	/
B	Organizational maintenance						
B-1	Loads/verifies memory of SMS computer	A1-F18AX-SCM-000			*	/	/
B-2	R&R SMS computer	A1-F18AX-740-300	74N1100		*	/	/

B.30 Performs boresight of associated aircraft systems using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Organizational maintenance						
A-1	Boresight harmonization of INS electrical equipment mounting base	A1-F18AX-LMM-040		*	/	/	*
A-2	Boresight harmonization of M61A2 20MM gun	A1-F18AX-LMM-040		*	/	/	*
A-3	Boresight harmonization of APG65 radar	A1-F18AX-LMM-040	742G600	*	/	/	*
A-4	Boresight harmonization of HUD	A1-F18AX-LMM-040	74D6100	*	/	/	*
A-5	Boresight harmonization of weapons station #4	A1-F18AX-LMM-040			/	/	*
A-6	Boresight harmonization of weapons station #6	A1-F18AX-LMM-040			/	/	*
B	R&R EBCA	A1-F18AX-740-300	74R63		/	/	*

B.31 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the navigation infrared receiving system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Navigation infrared receiving system	A1-F18AX-746-100			/	/	*
A-2	Power distribution	A1-F18AX-746-100	74Q20		/	/	*
B	Functional check						
B-1	Navigation infrared receiving system bit	A1-F18AX-746-200			/	/	*
C	Fault isolation						
C-1	System failure within NAVFLIR system	A1-F18AX-746-200			/	/	*
D	Organizational maintenance						
D-1	R&R digital computer converter CP 1805/AAR-50	A1-F18AX-746-300	74Q2300		/	/	*
D-2	R&R infrared receiver converter R-2352/AAR-50	A1-F18AX-746-300	74Q2100		/	/	*
D-3	R&R thermal control HD-1158/AAR-50	A1-F18AX-746-300	74Q2400		/	/	*
D-4	R&R mounting adapter MT-6512/AAR-50	A1-F18AX-746-300			/	/	*

B.32 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the digital map set using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Digital map set	A1-F18AX-731-100		*	/ /	*	/ /
A-2	Power distribution	A1-F18AX-731-100	73P10	*	/ /	*	/ /
B	Functional check						
B-1	Digital map set bit	A1-F18AX-731-200		*	/ /	*	/ /
C	Fault isolation						
C-1	System failure within digital map set	A1-F18AX-731-200		*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R digital map computer, CP-1802/ASQ-196	A1-F18AX-731-300	73P10	*	/ /	*	/ /
D-2	R&R digital memory unit MU-928/ASQ-196	A1-F18AX-731-300	73P1100	*	/ /	*	/ /

B.33 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the maintenance status display & recording system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	BIT	A1-F18AX-580-100			/ /	/ /	
A-2	Maintenance status display & recording system	A1-F18AX-580-100		*	/ /	*	/ /
A-3	Power distribution	A1-F18AX-580-100	58380	*	/ /	*	/ /
B	Functional check						
B-1	BIT MSDRS	A1-F18AX-580-200		*	/ /	*	/ /
C	Fault isolation						
C-1	Maintenance status display & recording system	A1-F18AX-580-200	58380	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R signal data converter	A1-F18AX-580-300	5838100	*	/ /	*	/ /
D-2	R&R signal data recorder	A1-F18AX-580-300	5838200	*	/ /	*	/ /
D-3	R&R magnetic tape cartridge	A1-F18AX-580-300	58383	*	/ /	*	/ /
D-4	R&R nose wheelwell digital display indicator	A1-F18AX-580-300	5838400	*	/ /	*	/ /
D-5	Re-terminate strain gauge	A1-F18AX-580-300	58389		/ /	*	/ /

B.34 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the flight incident recording and monitoring system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Bit	A1-F18AX-580-100		*	/	/	
A-2	Flight incident recorder and monitoring system	A1-F18AX-580-100		*	/	/	
A-3	Power distribution	A1-F18AX-580-100	58390	*	/	/	
B	Functional check						
B-1	Bit FIRAMS	A1-F18AX-580-100		*	/	/	
C	Fault isolation						
C-1	Flight incident recorder and monitoring system	A1-F18AX-580-200		*	/	/	
D	Organizational maintenance						
D-1	R&R signal data computer	A1-F18AX-580-300	5839100	*	/	/	
D-2	R&R aircraft maintenance indicator	A1-F18AX-580-300	5839200	*	/	/	
D-3	R&R memory unit	A1-F18AX-580-300	5839300	*	/	/	
D-4	R&R memory unit mount	A1-F18AX-580-300	58394	*	/	/	
D-5	R&R strain gages	A1-F18AX-580-300	58399		/	/	
D-6	R&R DFIRS/CSFIRS	A1-F18AX-580-300	58399		/	/	*

B.35 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the ATARS system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	ATARS system	A1-F18AC-770-100		*	*	*	
A-2	BIT	A1-F18AC-770-100		*	*	*	
A-3	Memory inspect	A1-F18AC-770-100					
A-4	Pallet pod tester	AG-517AC-OPI-000					
B	Functional check						
B-1	BIT ATARS system	A1-F18AC-770-200		*	*	*	
B-2	Memory inspect ATARS system	A1-F18AC-770-200			*	*	
B-3	Pallet pod tester	AG-517AC-OPI-000					
C	Fault isolation						
C-1	System failure within ATARS system	A1-F18AC-770-200			*	*	
D	Organizational maintenance						
D-1	R&R RECCE pallet assembly	A1-F18AC-770-300	77R2X	*		*	
D-2	R&R Low-Altitude Imaging Unit (LAIU)	A1-F18AC-770-300	77783				
D-3	R&R Medium-Altitude Imaging Unit (MAIU)	A1-F18AC-770-300	77782				
D-4	R&R Reconnaissance Management System (RMS)	A1-F18AC-770-300	7778100	*		*	
D-5	R&R Switchable Main Electronics Unit	A1-F18AC-770-300	7778400	*		*	
D-6	R&R control Electronics Unit (CEU)	A1-F18AC-770-300	7778500			*	
D-7	R&R rate gyro electronics	A1-F18AC-770-300	77787			*	
D-8	R&R infrared receiver unit	A1-F18AC-770-300	77788				

DA B.35 Continued

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-9	R&R Sensor Electronics Unit (SEU)	A1-F18AC-770-300	7778600	*	*		
D-10	R&R Tape Transport Unit (TTU)	A1-F18AC-770-300	7778A			*	
D-11	R&R Record/Reproducer Unit (RRU)	A1-F18AC-770-300	7778B00	*		*	
D-12	R&R Vertical Reference Gyroscope (VRG)	A1-F18AC-770-300	7778C			*	
D-13	R&R transformer rectifier unit	A1-F18AC-770-300		*		*	
D-14	R&R RECCE cassette tape	A1-F18AC-770-300				*	
D-15	R&R ATARS control panel assembly	A1-F18AC-770-300	77R2T				
D-16	R&R weather seal						
D-17	R&R data link pod assembly						

## APPENDIX A

### INDIVIDUAL EXPERIENCE DATA SHEET

### INDIVIDUAL DATA

### UNIT EXPERIENCE DATA

NAME: \_\_\_\_\_

**UNIT**            **SHOP**            **BILLET**            **FROM/TO DATES**

SSN: \_\_\_\_\_

## FORMAL SCHOOLS

SCHOOLS NAME

DATE COMPLETED

**COMMENTS:**

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## APPENDIX C

## WORK CENTER SUMMARY

AIRCRAFT COMMUNICATIONS/NAVIGATION/WEAPONS SYSTEMS TECHNICIAN (MOS 6317)

WORK CENTER NAME/NUMBER \_\_\_\_\_

NAME/MOS	LEVEL	A.1	A.2	A.3	A.4	A.5	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	B.9	B.10
	II						XXXXX	XXXXX	XXXXX							
	III															
	IV															
	II							XXXXX	XXXXX	XXXXX						
	III															
	IV															
	II							XXXXX	XXXXX	XXXXX						
	III															
	IV															
	II							XXXXX	XXXXX	XXXXX						
	III															
	IV															
	II								XXXXX	XXXXX	XXXXX					
	III															
	IV															
	II							XXXXX	XXXXX	XXXXX						
	III															
	IV															
	II								XXXXX	XXXXX	XXXXX					
	III															
	IV															
	II								XXXXX	XXXXX	XXXXX					
	III															
	IV															
	II									XXXXX	XXXXX	XXXXX				
	III															
	IV															
	II									XXXXX	XXXXX	XXXXX				
	III															
	IV															
	II										XXXXX	XXXXX	XXXXX			
	III															
	IV															
	II										XXXXX	XXXXX	XXXXX			
	III															
	IV															

## APPENDIX C

WORK CENTER SUMMARY  
AIRCRAFT COMMUNICATIONS/NAVIGATION/WEAPONS SYSTEMS TECHNICIAN (MOS 6317)

WORK CENTER NAME/NUMBER \_\_\_\_\_

NAME/MOS	LEVEL	B.11	B.12	B.13	B.14	B.15	B.16	B.17	B.18	B.19	B.20	B.21	B.22	B.23	B.24	B.25
	II															XXXXX
	III															
	IV															
	II															XXXXX
	III															
	IV															
	II															XXXXX
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	II															XXXXX
	III															
	IV															

## APPENDIX C

WORK CENTER SUMMARY  
AIRCRAFT COMMUNICATIONS/NAVIGATION/WEAPONS SYSTEMS TECHNICIAN (MOS 6317)

WORK CENTER NAME/NUMBER \_\_\_\_\_

NAME/MOS	LEVEL	B.26	B.27	B.28	B.29	B.30	B.31	B.32	B.33	B.34	B.35
	II						XXXXX				
	III										
	IV										
	II						XXXXX				
	III										
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	II						XXXXX				
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	II						XXXXX				
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	II						XXXXX				
	III										
	IV										
	II						XXXXX				
	III										
	IV										

ITSS (MATMEP)

## APPENDIX D

SUPPORT EQUIPMENT LICENSING RECORD

NAME / SSN: \_\_\_\_\_

RANK: \_\_\_\_\_

MOS: \_\_\_\_\_

DATE: August 2002