

**BY ORDER OF THE COMMANDER
AIR COMBAT COMMAND**

**AIR FORCE INSTRUCTION
21-103_ACCSUP_ADDENDUM_N**



12 AUGUST 2015

**Maintenance
EQUIPMENT INVENTORY, STATUS, AND
UTILIZATION REPORTING SYSTEM/E-3
MINIMUM ESSENTIAL SUBSYSTEM LIST
(MESL)**

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This MESL compliments AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*. It applies to all E-3 Air Combat Command (ACC) units and Air Force Reserve Command (AFRC) Classic Associate units. It does not apply to Air National Guard (ANG) and members. Send recommended changes or comments on AF Form 847, *Recommendation for Change of Publication*, to HQ ACC/A4CA-E3, 219 Dodd Blvd, Langley AFB VA 23665-2791, and send information copies to the applicable Office of Collateral Responsibility. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of in accordance with Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Contact supporting records managers as required. This publication may not be supplemented or further implemented/extended. The authorities to waive wing/unit level requirements in this publication are identified as T-2. See AFI 33-360, *Publications and Forms Management*, for a description of the authorities associated with the Tier numbers.

SUMMARY OF CHANGES

This document is substantially revised and must be completely reviewed. Mission columns have been changed. Numerous systems Work Unit Codes (WUCs) and notes have been added or deleted to better clarify mission capability requirements.

1. General. The MESL is the basis of status reporting IAW AFI 21-103. MESLs lay the ground work for reporting the status of aircraft availability. They list the minimum essential systems and subsystems that must work on an aircraft for it to perform specifically assigned unit wartime, training, test or other missions. MESLs are not comprehensive WUC lists and are not intended to mirror Minimum Equipment Lists (MEL). Mission Ready Available (MRA) is used in readiness Status of Resources and Training System (SORTS) reporting only and denotes Mission Capable (MC) aircraft capable of being configured for a contingency mission in accordance with COMACC OMNIBUS Plan.

1.1. Qualifying notes are used to define aircraft exceptions and help explain complex degraded mission systems such as suspension equipment.

1.2. Aircraft status for generation and deployment: The goal is to generate or deploy Fully Mission Capable (FMC) aircraft, recognizing status actually achieved may be less than FMC. A Not Mission Capable (NMC) aircraft may be deployed provided it is safe for flight and can be configured and generated to Mission Ready Available (MRA) status at an employment site.

1.3. All ACC units will generate, or deploy and regenerate, using ACC MESLs. Major Command differences in MESLs are acknowledged. Upon actual deployment to another MAJCOM theater, the gaining MAJCOM has the responsibility to resource and specify the unit's requirements and resource the differences in support/mission equipment.

1.4. Reading the MESL. A MESL is read by comparing the systems stated by work unit code (WUC) against the Full System Lists (FSL) and all applicable Basic System Lists (BSL) across the page. Use appropriate unit Design Operational Capability (DOC) statement(s) to determine applicability of BSL columns. The aircraft MESLs incorporate all ACC assigned aircraft and therefore it is important to compare only those columns listed in the MESL, which are applicable to the unit's assigned aircraft. For example, units with CC (combat) coded aircraft would determine and report status using only the FSL and BSL columns related to their DOC statement(s). Units with TF (training) coded aircraft would determine and report status using only the FSL and Training (TNG) columns, and units with CB (test) coded aircraft would determine and report status using only the FSL and TST columns. Units with multiple coded aircraft will ensure status is reported using the MESL columns appropriate to the individual aircraft assignment code.

Table 1.1. E-3 MESL.

NO	WUC	SYSTEM / SUBSYSTEM	FSL	BSL		
				ACT	ACW	BFT
	11000	Airframe				
1	11AC0	Windows	X	X	X	X
2	11CMM	Drive, Antenna Rotodome (2)	X	X 1	X 1	X 1
3	11CPO	Access & Inspection Panels/Doors, Antenna Pedestal (Rotodome Door)	X	X 4	X 4	X 4
	12000	Cockpit & Fuselage Compartments				
	13000	Landing Gear				
4	13BA0	Snubber Assembly, Nose Wheel	X			
5	13DHM	Detector, Anti-Skid	X	X	X	X
6	13DH0	Brake System, Main Landing Gear	X	X	X	X
7	13DJD	Indicator, Brake Pressure (Flight Deck)	X	X	X	X
8	13DJM	Valve Assembly, Pneumatic Brake	X	X	X	X
9	13DJM	Brake Interconnect	X	X	X	X
10	13GAX	Horn, Warning (Landing Gear)	X	X	X	X
11	13HA0	Indicators, Landing Gear	X	X	X	X
	14000	Flight Control System				
12	14AE0	Stabilizer Trim Controls	X	X	X	X
13	14DA0	Indicator, Flap Position	X	X	X	X
14	14DD0	Light, Indicator, Leading Edge Flap	X			
	23000	Turbofan Power Plant, TF-33-PW-100A (TCI)				
15	23H00	Fuel Enrichment	X	X	X	X
16	23KB0	Anti-Ice System	X	X	X	X
17	23LAA	Indicator, EGT	X	X	X	X
18	23LB0	Pressure Ratio Indicating System (EPR)	X	X 5	X 5	X 5
19	23LCA	Indicator, Engine RPM N1	X	X 5	X 5	X 5
20	23LCH	Indicator, Engine RPM N2	X	X	X	X
21	23LDA	Lights, Oil Pressure Indicating	X	X	X	X
22	23LDP	Indicator, Oil Quantity	X			
23	23LDR	Indicator, Oil Temperature	X	X	X	X
24	23LDV	Indicator, Oil Pressure	X	X	X	X
25	23LE0	Indicating System, Fuel Flow	X	X	X	X
	24000	Auxiliary Power Unit				

26	24A00	Auxiliary Power Unit (APU)	X			
27	24AVN	Light, Door Warning, APU	X			
	41000	Air Conditioning, Pressurization, & Surface Ice Control				
28	41AA0	Valve, Pressure/Flow (PRSOV) (4)	X	X 6	X 6	X 6
29	41AB0	Exchanger, Heat (Engine Pre-Cooler) (4)	X	X 1	X 1	X 1
30	41AC0	Valve, Shut-off, Firewall (FWSOV) (4)	X	X 7	X 7	X 7
31	41AV0	Valve, Isolation, Crossover Duct (Bleed Air)	X	X	X	X
32	41AW0	Valve, Antenna Pedestal Shut-off	X	X 8	X 8	X 8
33	41AXA	Indicator, Duct Pressure	X	X	X	X
34	41AX9	Overheat & Overpressure Indicators	X	X	X	X
3	41B00	Cabin Air Conditioning System	X	X 8	X 8	X 8
36	41BAN	Valve, Flow Control & Shut-Off	X	X	X	X
37	41BFB	Valve Butterfly (Trim Air Shut-Off Valve)	X	X 9	X 9	X 9
38	41BK0/W0	Controller, Zone Temperature	X	X 8	X 8	X 8
39	41BU0	Valve, Zone Temperature Trim (4)	X	X 1	X 1	X 1
40	41B3S	Indicator, Ram Inlet Door Position	X	X 11	X 11	X 11
41	41B3W	Indicator, Compressor Discharge Temperature	X	X	X	X
42	41B3X	Differential Pressure (ΔP) Gauge (E-3G)	X	X	X	X
43	41B3Y	AFT Zone Temperature Gauge (E-3G)	X	X	X	X
44	41B3Z	Pack Outlet Temperature Gauge (E-3G)	X	X	X	X
45	41C00	Cabin Pressurization System	X	X 8	X 8	X 8
46	41CA0	Valve, Outflow (2)	X	X	X	X
47	41CB0	Pump, Vacuum (2)	X	X	X	X
48	41CFE	Gauge, Pressure Differential, Bailout	X	X 12	X 12	X 12
49	41CFC	Indicator, Cabin Rate of Climb	X	X 13	X 13	X 13
50	41CFD	Altimeter, Cabin	X	X 12	X 12	X 12
51	41DB0	Fan, Recirculating Air, Forward (2)	X	X 1	X 1	X 1
52	41DY0	Gauge, Supply Air Temperature	X	X	X	X
53	41EF0	Fan, Recirculating Air, Aft (2)	X	X 1	X 1	X 1
54	41F00	Avionics Draw Through Cooling System	X	X 14	X 14	X 14
55	41H00	Radar Liquid Cooling System (LCS)	X	X	X	X
56	41HAA	Pump Unit, Centrifugal (LCS)	X	X 1	X 1	X 1
57	41HDF	Panel Assembly, LCS Control	X	X 15	X 15	X 15

58	41J00	Wipers, Windshield	X			
59	41K00	Window Heat System	X	X	X	X
60	41LA0	Fan Assembly (Power Feeder Cooling Sys) (2)	X	X 16	X 16	X 16
	42000	Electric Power Supply				
61	42ACS	Voltmeter, AC	X	X	X	X
62	42ACT	Meter, Frequency	X	X	X	X
63	42ADA	Amp Meter, AC	X	X 17	X 17	X 17
64	42AT0	Generator, Integrated Drive (IDG)	X	X 18	X 18	X 18
65	42AT1	Temperature Indicator (IDG)	X	X 19	X 19	X 19
66	42AX0	Switchlight, IDG Overheat Caution Light	X	X 19	X 19	X 19
67	42BB0	Transformer-Rectifier Unit (T/R), T11-T16 (6)	X	X 2	X 2	X 2
68	42BH0	DC Power Indicator & Control	X	X	X	X
	44000	Lighting System				
69	44AA0	Navigation Light System	X	X 20	X 20	X 20
70	44AC0	Anti-Collision Lights	X	X 21	X 21	X 21
71	44AE0	Landing Light System	X	X 22	X 22	X 22
72	44AE9	Runway Turnoff	X	X 23	X 23	X 23
73	44AEC	Light, Wing Illumination	X	X	X	X
74	44AH0	Wheel Well Lighting	X	X	X	X
75	44AJ0	Air Refueling Slipway Light System	X			
76	44AK0	Emergency Exit Lighting, Exterior	X	X	X	X
77	44CA0	Flight Crew Cabin Lighting	X	X 24	X 24	X 24
78	44CD0	Mission Crew Cabin Lighting	X	X 25	X 25	X 25
79	44CJ0	Lights, Miscellaneous Warning	X	X 26	X 26	X 26
80	44CK0	Emergency Lighting, Interior	X	X	X	X
	45000	Hydraulic & Pneumatic Power				
81	45A00	Utility Hydraulic Power System	X	X	X	X
82	45AMA	Indicator, Fluid Quantity	X	X	X	X
83	45ANC	Switch, Low Pressure Warning	X	X	X	X
84	45B00	Auxiliary Hydraulic System	X	X	X	X
	46000	Fuel System				
85	46BA0	Valve, Gate, Motor Operated (Reserve Tank Transfer Valve)	X	X	X	X
86	46BDO	Pump, Booster (Main)	X	X	X	X
87	46BE0	Pump, Boost Override (Center)	X	X	X	X

88	46D00	Aerial Refueling System	X			
89	46DX0	Amplifier, Signal, Aerial Refueling (Ready, Contact, Disconnect Lights)	X			
90	46HK0	Fuel Exchanger, Heat (Radar LCS Fuel Feed) (4)	X	X 2	X 2	X 2
91	46LAE/G	Indicating System, Fuel Quantity Reserve RH/LH	X	X 28	X 28	X 28
92	46LC0	Indicating System, Fuel Temperature (2)	X	X 15	X 15	X 15
	47000	Oxygen System				
93	47A00	Liquid Oxygen System	X	X 29	X 29	X 29
	49000	Miscellaneous Utilities				
94	49A00	Fire Detection & Control	X	X	X	X
95	49AD0	APU Fire Detection	X			
96	49ADG	Bottle Assembly, Fire Extinguisher (APU)	X			
97	49AG0	Leak Detection, Bleed Air	X	X	X	X
	51000	Instruments				
98	51A00	Attitude Warning System	X	X	X	X
99	51B00	Angle of Attack System	X	X	X	X
100	51BB0	Indicator, Angle Of Attack (2)	X	X 1	X 1	X 1
101	51C00	Attitude Heading Reference System (2)	X	X 51	X 51	X 51
102	51CD0	Controller, Compass	X	X	X	X
103	51D00	Flight Director System	X			
104	51DE0	Indicator, Attitude Director (2)	X	X 30	X 30	X 30
105	51DF0	Indicator, Horizontal Situation (2)	X	X 31	X 31	X 31
106	51DG0	Gyro, Rate Transmitting, TRU-2A / A (Rate of Turn)	X	X 10	X 10	X 10
107	51DH0	Panel Selector, Navigation Mode	X	X	X	X
108	51E00	Central Air Data System (2)	X	X	X	X
109	51EC0	Indicator, Static Air Temperature (SAT)	X	X 32	X 32	X 32
110	51EF0	Alert, Altitude (2)	X	X 1	X 1	X 1
111	51EG0	Alert, RVSM Audible	X			
112	51G00	Pitot Static System	X	X	X	X
113	51GD0	Indicator, VSI/TCAS TVI-920 (2)	X	X	X	X
114	51GG0	Warning Switch, Mach/Airspeed (2)	X	X 33	X 33	X 33
115	51GN0	Heat System, Pitot Tube	X	X	X	X
116	51GN9	Q-Inlet Heater	X	X	X	X
117	51HB0	Indicator, Total Air Temperature (TAT)	X	X 32	X 32	X 32
118	51KB0	Compass, Magnetic, Standby	X	X	X	X

119	51KC0	Indicator, Standby Attitude	X	X	X	X
120	51KD0	Altimeter, AAU-19A / A (Pilot & Copilot)	X	X 34	X 34	X 34
121	51KE0	Altimeter, Pressure AAU-27 / A (Navigator)	X	X	X	X
122	51KG0	Panel, Annunciator, Door Warning	X			
	52000	Autopilot System				
123	52A00	Autopilot	X			
124	52A00	Autopilot Altitude Hold (ALT HOLD)	X			
125	52AN0	Annunciator, Flight Mode (Warning Light)	X			
126	52AP0	Indicator, 3-Axis Trim	X	X 35	X 35	X 35
127	52AW0	Autopilot Disengage Switch (2)	X			
128	52BB0	Coupler, Yaw Damper, Parallel	X	X	X	X
129	52C00	Yaw Damper, Series	X	X	X	X
	61000	High Frequency Communications				
130	61B00	Radio Set (3) AN/ARC-230	X	X 2	X 2	X 2
131	61BE0	Control, Radio Set, C- 12544/ARC-230	X	X 2	X 2	X 2
132	61R00	Flight Deck Interface	X			
	62000	VHF Communications				
133	62000	VHF Radios	X	X 27	X 27	X 27
	63000	UHF Communications				
134	63AN0	Indicator, UHF Control C-9639/A (2)	X	X 36	X 36	X 36
135	63BB0	UHF Radio Sets U-1thru U-12 & U-14 thru U-19	X	X 37	X 37	X 37
136	63D00	Communications System, Have-Quick A-Net, Radio Set, AN/ARC 204 (4)	X	X 2	X 2	X 2
137	63G00	SATCOM Systems General (2)	X	X 1	X 1	X 1
138	63G00	DAMA SATCOM Systems General (2)	X			
	64000	Interphone System				
139	64BA0	Control Indicator, C-9655/A, C-9655A/A or C-9655B/A (Unit 7) (Program Display & Test Panel)	X	X	X	X
140	64BAG	Interface Assembly, Public Address (PA)	X	X	X	X
141	64BB0	Control, Intercommunication Set, C-9656/A (Unit 1) (Mission ADS 17)	X	X 3	X 3	X 3
142	64BC0	Control, Intercommunications Set, C-9657/A (Seats 8 & 25)	X	X 52	X 52	X 52
143	64BD0	Control, Intercommunication Set, C-9658/A (Unit 3) (Flight Deck ADS)	X	X	X	X
144	64BF0	Control, Intercommunication Set, C-9659/A (Unit 4) (Mission ADS 19)	X	X 38	X 38	X 38
145	64BG0	Control, Intercommunication Set, C-9660/A (Unit 5)	X	X 39	X 39	X 39

		(Air Vehicle Panel 6)				
146	64D00	Distribution Panels (Avionics Power Disconnect Panel)	X			
147	64DD0	Panel, Signal Distribution Radio, SB-4083/A or SB-4083A/A (HF/VHF Base Band Distro Panel)	X	X	X	X
	65000	Identification, Friend or Foe (IFF)				
148	65E00/H00	Interrogator, Set AN/APX-103 B/C (NGIFF UPX-40)	X	X 40	X 40	X 40
149	65EF0/HF0	Control, Antenna, C-9573/A, B308	X	X	X	X
150	65EJ0/HJ0	Switch, RF, Transmission Line, SA-1968/A, B9	X	X	X	X
151	65EK0/HK0	Processor, Radar Target Data, CV-4314/APX-103B, B6 CV-4349/APX-103C, B6 (NGIFF UPX-40)	X	X	X	X
152	65F00	Transponder Set, IFF, AN/APX-119 (IFF Front End)	X	X	X	X
	66000	Emergency Communications				
153	66BA0	DFDR/CVR/CPL Control Panel	X	X 41	X 41	X 41
	69000	Misc Communications Equipment Systems				
154	69A00	Digital Data Set, (TADIL-A) AN/AYC-1	X			
155	69EA0	Wide Band Secure Voice (10)	X	X 56	X 56	X 56
156	69ECD	KGX-40/TSEC (KG-40)	X			
157	69EE0	Narrow Band Secure Voice (6)	X			
158	69EHA	COMSEC Module (CM), KYV-5	X			
159	69K00	Radar Set AN/URC-107 (V) (JTIDS)	X			
	69N00	Iridium Communication System				
160	69NAA	Antenna, Iridium	X			
161	69NCA	Handset	X			
	69P00	Secure Chat System				
162	69PA0	E3 Adjunct Computer & Display	X			
163	69PB0	Sectera ® Wireline Terminal (SWT)	X			
	69R00	Secure Iridium Communications (SIC)				
164	69RA0	Antenna Assembly	X			
165	69RB0	Iridium Antenna Interface Unit (AIU)	X			
166	69RC0	User Interface Panel, P31	X			
167	69RD0	E3 Adjunct Computer & Display	X			
	71000	Radio Navigation				
168	71D00	VHF Navigation System (VOR/ILS) (2)	X	X 42	X 42	X 42
169	71GA0	Indicator, Radio Altimeter	X	X 1	X 1	X 1
170	71HG0	Indicator, Radio Magnetic (RMI) (3)	X	X 43	X 43	X 43

171	71K00	Navigational Set, TACAN, AB/ARB-118 (2)	X	X 42	X 42	X 42
172	71RB0	Control Display Unit (CDU) CDU/800Y (3)	X	X 44	X 44	X 44
173	71RD0	Embedded GPS Internal Ref Unit (EGI) (2)	X	X 45	X 45	X 45
174	71RFO	Bus Sys Interface Unit (BSIU), SCC-862 (2)	X	X 1	X 1	X 1
	72000	Radar Navigation				
175	72A00	Weather Radar, AN/APS- 133 (V)	X	X	X	X
	74000	Miscellaneous Systems				
176	74A00	System M	X			
177	74B00	Traffic Alert & Collision Avoidance System (TCAS)	X			
	76000	Electronic Countermeasure (ECM) Systems				
178	76A00	Have Siren System and Transmitters (4)	X	X 46	X 46	X 46
179	76B00/C00	Passive Detection Receiving System, AN/AYR-2	X			
	81000	Surveillance Radar Systems				
180	81ACB	Board Assembly, Universal Multiplexer, A1-A4	X	X 1	X 1	X 1
181	81AC1	Module Assembly, Phase Shifter Driver, AR1-AR30 (Antenna Driver)	X	X 47	X 47	X 47
182	81AD0	Amplifier Group, Radio Frequency, OG-167.APY-1, 1A3 (3)	X	X 1	X 1	X 1
183	81AV0	Programmer, Antenna Position, CP1328/APY-1, 1A4	X	X 1	X 1	X 1
184	81B00	Transmitter, Radar, OT-90/APY-1, Unit 3 (2)	X	X 1	X 1	X 1
185	81D00	Processor Group, Radar Data OL-521/APY-2, 4A1	X	X 1	X 1	X 1
186	81DAE	Board Assembly, Advanced Modular Processor A3, A4, A5, A6, A7, A8	X	X 1	X 1	X 1
187	81DAF	Board Assembly, Video Interface, A9, A10	X	X 1	X 1	X 1
188	81DAG	Board Assembly, Radar Interface Adaptive Unit (RAIU), A16, A17	X	X 1	X 1	X 1
189	81DAP	Disk, Radar, 4A1A2	X	X 2,48	X 2,48	X 2,48
190	81DBO	Processor, Adaptive Signal, CP-2113/APY-2, 4A1A4	X	X 1	X 1	X 1
191	81DCS	Board Assembly, Peak Select/RCMP Interface, A135, A136 ASP/RIAU Backend Channel	X	X 1	X 1	X 1
192	81DCZ	Power Supply, +5 VOLT, A5, A6	X	X 1	X 1	X 1
193	81HAH	Synchronizer Assembly, SN-521/APY-1 (No Reference Designator)	X	X 1	X 1	X 1
194	81HCA	Receiver Group, Analog OR - 215/APY-2 (No Reference Designator) (3)	X	X 1	X 1	X 1
195	81HGA	Generator Group, Signal, OV-71/APY-1, A19 (STALO)	X	X 1	X 1	X 1
196	81J00	Panel, Control, Radar Signal, SB-4363/APY-1, Unit 5	X	X 1,49	X 1,49	X 1,49

197	81JA5	Assembly, Spectrum Analyzer, A5	X	X	X	X
198	81QK0	Processor Group, Radar Target Data, OL-220/APY-2, 4A3 (Maritime Cabinet)	X	X 1	X 1	X 1
	82000	Computer & Data Display (Graphic)				
199	82CS0	Transfer Unit, Programmable Cartridge, RD-643(V)1/ASH, 4A3	X	X 1	X 1	X 1
200	82EGA	Time Server (E-3G)	X	X 1	X 1	X 1
201	82GA0	Display Processor Assembly (DP), A1A5, A5	X	X 1	X 1	X 1
202	82GK0	Channel Assembly, MPC Refresh, A1A1, A1A3, A1A6, A2A1, A2A3, A2A6, A2A7	X	X 1	X 1	X 1
203	82H00	Console, Situation Display OJ-320/A or OJ-566/A (14)	X	X 3	X 3	X 3
204	82P00	Indicator, Digital Display, IP-1169/A (2)	X	X 1	X 1	X 1
205	82RDA	Blade Processor Assembly (E-3G)	X	X 53	X 53	X 53
206	82REC	SATCOM Processor Board (E-3G)	X	X 1	X 1	X 1
207	82RED	JTIDS/RCC Processor Board (E-3G)	X			
208	82REF	TANS Processor Board (E-3G)	X	X 1	X 1	X 1
209	82REG	ESM Processor Board (E-3G)	X	X	X	X
210	82REH	Link 11 Processor Board (E-3G)	X			
211	82REJ	Radar Interface Card (E-3G)	X	X 1	X 1	X 1
212	82TA0	Multiplexer, Digital, TD-1443A/A 1A1, 1A6	X	X 1	X 1	X 1
213	82TB0	Arithmetic Unit, Computer, CAU, CP02164/A, 1A2, 1A7	X	X 1	X 1	X 1
214	82TG0	Memory Unit, Monolithic, MU-1084/A (3)	X	X 1	X 1	X 1
215	82TJ0	Memory Unit, Bubble, MU-981/A (2)	X	X 1	X 1	X 1
216	82VF0/VJ0	Disk Storage (E-3G)	X	X 55	X 55	X 55
217	82VG0	Data at Rest Encryption (DARE) (2) (E-3G)	X	X 57	X 57	X 57
218	82VH0/VK0	Onboard/Offboard Media Chassis (E-3G)	X	X	X	X
219	82W00	Block 40/45 Data Display Group – B (E-3G)	X	X 54	X 54	X 54
220	82W00	Switch, Keyboard/Mouse (E-3G)	X			
221	82W00	Power Supply, KM Switch (E-3G)	X			

222	82W00	Remote Switching Unit, KM Switch (E-3G)	X			
	91000	Emergency Equipment				
223	91000	Emergency Equipment	X	X50	X50	X50
QUALIFYING NOTES						
1	One may be inoperative.					
2	Two may be inoperative.					
3	Three may be inoperative.					
4	Inlet doors must be functional. Exhaust door may be removed.					
5	Either N1 indicator or EPR indicator per engine may be inoperative provided other is functional.					
6	One may be inoperative provided it is locked closed.					
7	One may be inoperative provided it and associated PRSOV are locked closed.					
8	Manual control must operate.					
9	May be inoperative if air conditioning pack can be operated in manual mode.					
10	May be inoperative, provided all three (Pilot, Copilot, and Standby) attitude indicators operate.					
11	May be inoperative if air conditioning pack operates in auto.					
12	Either the cabin altimeter or FE Panel differential pressure indicator must operate.					
13	May be inoperative if manual pressurization control operates.					
14	Two of the following indicators may be inoperative: FE NO FLOW, CDMT, DAPG COOLING AIR OFF or DRAW THRU.					
15	Fuel temp gauge at either ART or FE position must operate.					
16	Primary fan must operate.					
17	Required for each operational IDG.					
18	Disconnect function must operate on all IDGs. Bus Tie system must operate. No more than two generators may be inoperative and the synch bus must operate.					
19	Copilot's IDG overheat annunciator may be inoperative. Both the IDG temp indicator and the corresponding IDG overheat caution light must operate for operational generators.					
20	Must have one operational light bulb per navigation light.					
21	One top and one bottom strobe or beacon must operate.					
22	One required on each side.					
23	May be inoperative provided all landing lights operate.					
24	Pilot and copilot's instrument lights and map lights must operate. Navigator and FE must have operational flood lights.					
25	Must have sufficient illumination of Mission Crew instruments to adequately perform mission.					
26	One or more displays may be inoperative if PA system operates. Flight deck and mission interphone systems must operate.					
27	VHF radio #1 must operate.					
28	Reserve tank indicator may be inoperative provided associated main tank quantity gauge and transfer valve					

	operate.
29	Recharging hoses in “J” compartment and latrine may be inoperative. Oxygen regulators must operate at occupied crew positions.
30	Glide slope pointer may be inoperative provided corresponding HSI pointer operates.
31	Copilot’s may be inoperative provided Copilot’s RMI operates.
32	Either Static Air Temp (SAT) or Total Air Temp (TAT) may be inoperative provided other is functional.
33	One Mach counter may be inoperative. One limit indicator or Mach warning bell must operate.
34	Both must operate in RESET and STANDBY modes.
35	Rudder axis must operate.
36	Flight Deck control indicator must operate.
37	Either U-01 or U-03 may be inoperative; U-19 (Flight Deck) must operate; U-12 may be inoperative if UHF guard can be reconfigured using another mission radio. U-13 may be inoperative provided U-02 or U-04 is operational.
38	Must have one operational unit in forward lobe, aft lobe and galley.
39	Internal system must operate.
40	Less NGIFF, one RT, one Power Supply, and one KIR must operate. With NGIFF, one transmitter and one KIV-77 must operate.
41	CPL must operate (inoperative DFDR/CVR = FMC).
42	#1 ILS must operate. #2 VOR/ILS may be inoperative if #2 TACAN is functional. TACAN may be inoperative at either pilot’s station provided respective VOR/ILS is functional and TACAN is functional at opposite pilot station.
43	Corresponding HSI must operate.
44	Only Copilot’s CDU may be inoperative.
45	One may be inoperative. If EGI #1 or #2 is inoperative, the corresponding AHRS must operate.
46	If installed, inboard transmitters must operate.
47	For drivers 1-14 and 29, one driver may be inoperative. For drivers 15-28 and 30, one driver may be inoperative.
48	Must be able to obtain radar load from front if back two are inoperative.
49	One screen may be inoperative.
50	Portable emergency exit light may be inoperative at bailout chute.
51	If AHRS #1 or #2 is inoperative, corresponding EGI must operate.
52	Audio must operate.
53	One NAS Head and one Linux Server may be inoperative. Linux Server 6 is not required.
54	Three OWSs (Seats 10 – 24) and one Tech Console (Seat 6 or Seat 7) may be inoperative.
55	Two Hard Disks in each RAID and one Storage Controller may be inoperative
56	One must operate.
57	If DARE system is installed, DARE #2 may be inoperative.

KENNETH R. LAPIERRE, Brigadier General,
USAF
Director of Logistics

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*, 26 January 2012

Prescribed Forms

This addendum does not prescribe any forms.

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

ACC—Air Combat Command

ACT—Air Combat Tactics (Weapons Sortie)

ACW—Air Control and Warning (Surveillance Sortie)

AF—Air Force

AFI—Air Force Instruction

AFMAN—Air Force Manual

AFRC—Air Force Reserve Command

BFT—Basic Flight Training

BSL—Basic System List

CC—Combat

COMACC—Commander, Air Combat Command

DAMA—GATM - Demand Assigned Multiple Access-Global Assigned Traffic Management

DOC—Design Operational Capability

ECM—Electronic Counter Measure

FMC—Fully Mission Capable

FSL—Full Systems List

HQ—Headquarters

IAW—In Accordance With

MAJCOM—Major Command

MC—Mission Capable

MESL—Minimum Essential Subsystem List

MRA—Mission Ready Available

NGB—National Guard Bureau

NMC—Not Mission Capable

PMC—Partially Mission Capable

TNG—Training

TRG—Training Assigned Aircraft

WUC—Work Unit Code