BY ORDER OF THE CHIEF, NATIONAL GUARD BUREAU

AIR FORCE INSTRUCTION 21-103
AIR NATIONAL GUARD SUPPLEMENT, ADDENDUM A

1 AUGUST 2009

Maintenance

EQUIPMENT INVENTORY, STATUS, AND UTILIZATION REPORTINGSYSTEM RC-26B MINIMUM ESSENTIAL SUBSYSTEM LIST (MESL)

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This MESL compliments AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*. This addendum applies to all Air National Guard (ANG) units assigned the RC-26B aircraft. Send recommended changes or comments on AF Form 847, Recommendation for Change of Publication, to NGB/A4MY, 3500 Fetchet Drive, Andrews AFB, MD 20716, and send information copies to the applicable OCR. Maintain official records in accordance with (IAW) AFMAN 33-363, *Management of Records*, and dispose of them IAW AF Records Disposition Schedule found at **https://www.my.af.mil/gcss-af61a/afrims/afrims/rims.cfm**. Contact support record managers, as required, for approval.

SUMMARY OF CHANGES

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. 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. Mission Ready Available (MRA) is used in readiness Status of Resources and Training Systems (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 expectations 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 ANG units will generate, or deploy and regenerate, using ANG MESLs. Major Command (MAJCOM) 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 Fully Mission Capable (FSL) and all applicable Basic Systems Lists (BSLs) across the page. Each unit's Design Operational Capability (DOC) statement determines applicability of BSL columns. The aircraft MESLs incorporate all ANG 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. Units with TF (training) coded aircraft would determine and report status using only the FSL and 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. RC-26B.

ITEM #	ATA	System/Subsystem	Full System List	Basic System List		Basic System List		Basic System List	
				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
	2100	**Air Conditioning**							
1	2121	Cockpit Fresh Air Fan	X						
2	2130	Auto Pressurization Controller	X	X1	X1	X1	X1	X1	X1
3	2130	Manual Pressurization Controller	X	X2	X2	X2	X2	X2	X2
4	2130	Air Cycle Machine (2)	X	X16	X16	X16	X16	X16	X16
5	2132	Cabin Rate of Climb Indicator	X						
6	2132	Cabin Altitude Annunciator	X						
7	2132	Differential Press/Cabin Alt Indicator	X	X	X	X	X	X	X
8	2133	Outflow / Safety Valve	X	X	X	X	X	X	X
9	2133	Cabin Dump System	X	X	X	X	X	X	X
10	2150	Air Conditioner	X	X3	X3	X3	X3	X3	X3
11	2160	Auto temp control system	X	X1	X1	X1	X1	X1	X1
12	2160	Manual Temp Control system	X	X2	X2	X2	X2	X2	X2
	2200	**Auto Flight**							
13	2210	Autopilot (2)	X					X16	
	2300	**Communication**							
14	2310	PRC-117/F Radio with Control						X23	X23
15	2310	ARC-231 (all components req'd)						X24	X24
16	2310	HF	X	X7		X7		X7	
17	2311	RMU-556 (2)	X	X16	X16	X16	X16	X16	X16
18	2320	KDA-557 or COM 1 remote	X	X5	X5	X5	X5	X5	X5
19	2321	UHF	X	X16		X16			
20	2321	MSO UHF2	X	X6		X6			
21	2323	MSO KY-58 (UHF2 Secure Processor)	X	X6		X6			

ITEM #	ATA	System/Subsystem	Full System List	Basic System List		Basic System List		Basic System List	
				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
22	2322	MSO 800 MHZ Converter (UHF 3)	X						
23	2332	VHF (2)	X	X16	X16	X16	X16	X16	X16
24	2312	Satcom	X			X 21		X21	
25	2312	MSO Wulfsberg C/XTS-5000	X						
26	2320	Aircraft Flight Phone (2 handsets)	X						
27	2340	MSO Radio Foot Switch (2)	X					X	X
28	2340	Audio Control Panel Aircrew	X	X	X	X	X	X	X
29	2340	Audio Control Panel MSO	X	X	X	X	X	X	X
30	2340	Audio Control Panel PLEA	X					X	X
31	2340	Audio control Panel # 2,3,4 LEA	X						
32	2340	Cockpit Speaker (CockpitlMSO)	X						
33	2340	Interphone Headset Jacks	X	X	X	X	X	X	X
34	2340	Hand Microphone Aircrew	X						
35	2360	Static Discharge Wicks	X	X	X	X	X	X	X
36	2370	Cockpit Voice Recorder	X						
37	2380	MSO HPW Remote						X	X
38	2380	Forward HPW Remote							X
39	2380	Pilot Laptop						X	X
40	2380	HPW Laptop						X	X
41	2380	ROVER Module Assy						X	
	2400	**Electrical Power**							
42	2422	Inverter (2)	X	X16	X16	X16	X16	X	X
43	2422	MSO 400Hz Inverter	X	X	X				
44	2422	MSO 60 Hz Inverter	X	X	X	X	X	X	X
45	2425	AC Volt Meter	X	X	X	X	X	X	X
46	2425	AC Bus Fail Annunciator	X						
47	2431	Battery Fault Warning (2) Annunciator	X	X	X	X	X	X	X

ITEM #	ATA	System/Subsystem	Full System List	Basic System List		Basic System List		Basic System List	
				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
48	2432	Battery 2 Each (Both Required)	X	X	X	X	X	X	X
49	2432	MSO Aux Battery	X						
50	2434	DC Generator 2 Each (Both Required)	X	X	X	X	X	X	X
51	2437	Battery Disconnect Annunciator (2)	X						
52	2437	DC Generator Fail Annunciator	X						
53	2437	DC Volt Meter	X	X	X	X	X	X	X
54	2437	DC Ammeter	X	X	X	X	X	X	X
55	2440	GPU Plug-In Annunciator	X						
56	2460	standby Instrument Power system	X	X	X	X	X	X	X
	2500	**Cabin Equipment**							
57	2510	Cockpit Restraint Harness	X	X	X	X	X	X	X
58	2510	Seats P/CP	X	X	X	X	X	X	X
59	2520	Passenger Seat Belt	X	X	X	X	X	X	X
60	2520	MSO Restraint Harness	X	X	X	X	X	X	X
61	2520	Seats Minimum for MSO & Primary LEA	X						
62	2540	Lavatory	X						
63	2560	First Aid Kit	X	X	X	X	X	X	X
64	2560	Crash Axe	X	X	X	X	X	X	X
65	2560	Portable Fire Extinguisher (Both Req)	X	X	X	X	X	X	X
66	2561	Life Jackets (every seat)	X	X7	X7	X7	X7	X7	X7
67	2562	Emergency Locator Transmitter	X	X	X	X	X	X	X
68	2564	Life raft	X	X7	X7	X7	X7	X7	X7
	2600	**Fire Protection**							
69	2610	Engine Fire Detection System	X	X	X	X	X	X	X
70	2611	Smoke Detection Annunciators Both Req	X	X	X	X	X	X	X
71	2612	Fire Protection Annunciators	X	X	X	X	X	X	X
72	2612	Pod Fire Detection System	X	X8	X8				
73	2612	Pod Fire Extinguisher System	X	X8	X8				

ITEM #	ATA	System/Subsystem	Full System List	Basic System List		Basic System List		Basic System List	
				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
74	2620	Engine Fire Extinguishing System	X	X	X	X	X	X	X
75	2630	Wing Overheat Warning	X	X	X	X	X	X	X
	2700	**Flight Controls**							
76	2720	Yaw Damper	X						
77	2731	Pitch Trim System	X	X	X	X	X	X	X
78	2741	Stab Position Indicator	X	X	X	X	X	X	X
79	2741	Trim-in-motion Sonalert	X	X	X	X	X	X	X
80	2741	Out-of-trim Sonalert	X	X	X	X	X	X	X
81	2750	Flap System	X	X	X	X	X	X	X
82	2750	Flap Position Indicator	X	X	X	X	X	X	X
83	2770	Control Lock system	X	X	X	X	X	X	X
	2800	**Fuel**							
84	2821	Fuel Filter Annunciator Both Required	X	X	X	X	X	X	X
85	2822	Eng Fuel Boost Pumps Aux & Primary	X	X9	X9	X9	X9	X9	X9
86	2823	Fuel Shutoff Valve (Both engines)	X	X	X	X	X	X	X
87	2823	Fuel Transfer Pump Annunciator Both Req	X	X	X	X	X	X	X
88	2824	Fuel Crossflow Valve	X	X	X	X	X	X	X
89	2840	Fuel Crossflow Annunciator	X	X	X	X	X	X	X
90	2841	Cockpit Fuel Quantity Indicator	X	X20	X20	X20	X20	X20	X20
91	2841	Fuel Consumed Indicator	X	X	X	X	X	X	X
	2900	**Hydraulic Power**							
92	2910	Hydraulic Shutoff Valve both required	X	X	X	X	X	X	X
93	2913	Hydraulic Pump both required	X	X	X	X	X	X	X
94	2923	Aux Hydraulic System	X	X	X	X	X	X	X
95	2931	Hydraulic Pump Pressure Guage	X	X10	X10	X10	X10	X10	X10
96	2931	Hydraulic Low Press Warn Light Both Req	X	X	X	X	X	X	X

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				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
	3000	**Ice and Rain Protection**							
97	3010	SAS Heat System	X	X	X	X	X	X	X
98	3010	Wing and Tail De-Ice System	X	X	X	X	X	X	X
99	3010	Temp Limiter	X	X18	X18	X18	X18	X18	X18
100	3010	De-Ice Pressure Guage	X						
101	3020	Engine Intake Heat Annunciator Both Req	X	X	X	X	X	X	X
102	3020	Engine Inlet Anti-Icing	X	X	X	X	X	X	X
103	3020	Oil Cooler Inlet Anti-Icing	X	X	X	X	X	X	X
104	3020	Oil Cooler Duct Heat Cycle Lights	X	X	X	X	X	X	X
105	3030	Pitot Heat	X	X	X	X	X	X	X
106	3030	Pitot Heat Load / Ammeter	X	X	X	X	X	X	X
107	3040	Windshield Defog Fan	X						
108	3040	Windshield Heat System Annunciator Both Required	X	X	X	X	X	X	X
109	3040	Windshield Heat System	X	X	X	X	X	X	X
110	3040	Windshield Wipers	X	X	X	X	X	X	X
111	3060	Propeller De-Icing System	X	X	X	X	X	X	X
112	3060	Propeller Heat Ammeter	X	X	X	X	X	X	X
113	3080	SAS De-ice Annunciator	X	X	X	X	X	X	X
114	3080	SAS Fail Annunciator (2)	X	X16	X16	X16	X16	X16	X16
	3100	**Instruments**							
115	3120	Clock	X	X	X	X	X	X	X
116	3130	Flight Data Recorder	X						
	3200	**Landing Gear**							
117	3200	Landing Gear Position Indicator Lights	X	X	X	X	X	X	X
118	3200	Landing Gear Position Aural Warning	X	X	X	X	X	X	X
119	3220	Nose Wheel Steering	X						
120	3240	Parking Brake	X						

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				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
121	3260	Landing Gear Door Position Annunciators	X	X	X	X	X	X	X
122	3260	Nose Wheel Steering Annunciator	X	X	X	X	X	X	X
123	3260	Nose Wheel Steering Fail Annunciator	X	X	X	X	X	X	X
	3300	**Lights**							
124	3310	Cockpit Instrument Lighting	X	X12	X12	X12	X12	X12	X12
125	3310	Cockpit Panel Lighting	X	X	X	X	X	X12	X12
126	3310	Cockpit Flood Lighting	X						
127	3310	NVG Material	X					X22	X22
128	3320	Passenger Notice Lights	X						
129	3320	Cabin Isle Lights	X						
130	3320	Cabin Overhead Lights	X						
131	3320	MSO Station Lights	X						
132	3320	Entrance Lights	X						
133	3340	Landing Lights	X	X12	X12	X12	X12	X12	X12
134	3340	Position Lights	X	X12	X12	X12	X12	X12	X12
135	3340	Collision Avoidance Lights	X	X13	X13	X13	X13	X	X
136	3340	Recognition Lights	X	X12	X12	X12	X12	X12	X12
137	3340	Taxi Lights	X	X12	X12	X12	X12	X12	X12
138	3340	Wing Ice Light	X	X12	X12	X12	X12	X12	X12
139	3340	Covert Lighting	X					X22	
	3400	**Navigation**							
140	3412	Outside Air Temp Indicating System	X	X	X	X	X	X	X
141	3413	Vertical Speed Indicator	X					X	X
142	3414	Air Speed Indicator (2)	X	X	X	X	X	X	X
143	3416	Altimeter (2)	X	X	X	X	X	X	X
144	3417	Air Data Computer # 1	X	X	X	X	X	X	X
145	3417	Air Data Computer # 2	X						
146	3418	Stall Avoidance	X	X	X	X	X	X	X

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				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
147	3421	Attitude Indicator	X	X15	X15	X15	X15	X	X
148	3421	Standby ADI	X	X	X	X	X	X	X
149	3423	Magnetic Compass	X	X	X	X	X	X	X
150	3424	Turn and Slip Indicator	X	X	X	X	X	X	X
151	3425	Heading Indicators (2)	X	X	X	X	X	X	X
152	3425	MSO Radar Altimeter	X	X	X				
153	3425	Radio Altimeter (2)	X			X22	X22	X22	X22
154	3425	KNS 660	X	X	X	X	X	X	X
155	3425	EFIS BothRequired	X	X	X	X	X	X	X
156	3425	Horizontal Situation Indicator (2)	X	X16	X16	X16	X16	X16	X16
157	3425	Radio Magnetic Indicator (2)	X	X16	X16	X16	X16	X16	X16
158	3425	Flight Director (2)	X						
159	3433	MLS							
160	3434	Marker Beacon	X						
161	3441	MSO Inertial Navigation Unit / IMU	X	X	X	X	X	X	X
162	3442	Weather Radar	X						
163	3444	GPWS	X			X22	X22	X22	X22
164	3445	TCAS	X	X	X	X	X	X	X
165	3451	DME	X					X	X
166	3451	TACAN	X					X	X
167	3452	ATC Transponder	X	X	X	X	X	X	X
168	3452	MODE 4	X	X14	X14	X14	X14	X	X
169	3454	VOR Radio Navigation (2)	X	X16	X16	X16	X16	X16	X16
170	3454	ILS Radio Navigation (2)	X	X16	X16	X16	X16	X16	X16
171	3455	ADF	X	X7	X7	X7	X7	X7	X7
172	3457	Aircraft GPS	X	X	X				
	3500	**Oxygen**							
173	3510	Crew Oxygen System	X	X	X	X	X	X	X

ITEM #	ATA	System/Subsystem	Full System List	Basic System List		Basic System List		Basic System List	
				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
174	3510	Portable Oxygen Bottles (1)	X	X	X	X	X	X	X
175	3520	Emergency escape breathing devices (each seat without ERP)	X	X19	X19	X19	X19	X19	X19
176	3520	MSO Portable Oxygen Bottle *wI* ERP	X	X	X	X	X	X	X
177	3520	P/CP Oxygen Mask (ERP)	X	X	X	X	X	X	X
178	3520	Passenger Oxygen Masks (each seat)	X	X	X	X	X	X	X
179	3520	Passenger -Oxygen -System	X	X	X	X	X	X	X
	3600	**Pneumatics**							
180	3600	Bleed Air Source (2)	X	X16	X16	X16	X16	X16	X16
	3700	**Vacuum**							
181	3720	Suction Gage	X	X17	X17	X17	X17	X	X
182	3720	LOW Suction Warning Annunciator	X	X	X	X	X	X	X
	5200	**Doors**							
183	5230	Cargo Door Warning Ann.	X	X	X	X	X	X	X
184	5270	Cabin Door Warning Ann.	X	X	X	X	X	X	X
	6100	**Propellers**							
185	6100	NTS System	X	X	X	X	X	X	X
186	6121	Propeller Synchrophaser	X	X		X		X	
	7700	**Engine Indicating**							
187	7331	Fuel Flow Indicator	X	X	x	X	x	X	X
188	7332	Fuel Pressure Indicator	X	X	X	X	X	X	X
189	7700	Single Redline Limiter (SRL) Off Annunciator	X	X	X	X	X	X	X
190	7700	Single Redline Limiter (SRL) Computer	X	X	X	X	X	X	X
191	7712	Torque Indicator	X	X	X	X	X	X	X
192	7714	RPM Indicator	X	X	X	X	X	X	X
193	7722	EGT Indicator	X	X	X	X	X	X	X
194	7722	EGT Compensator	X	X	X	X	X	X	X
195	7740	BETA Annunciators Both Required	X	X	X	X	X	X	X

ITEM #	ATA	System/Subsystem	Full System List	Basic System List		Basic System List		Basic System List	
				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
	7900	**Engine Oil**							
196	7730	Oil Pressure Guage	X	X	X	X	X	X	X
197	7730	Oil Pressure Annunciator	X	X	X	X	X	X	X
198	7730	Oil Temperature Indicator	X	X	X	X	X	X	X
199	7730	Chip Detector	X	X	X	X	X	X	X
	8200	**Water Injection**							
200	8200	CAWI System	X	X	X	X	X	X	X
201	8200	CAWI Quantity Gage	X	X	X	X	X	X	X
202	8200	CAWI Pump Annunciator Both Required	X	X	X	X	X	X	X
	9700	**Image and Video Recording**							
203	9700	MSO SIU 800	X	X	X				
204	9700	MSO Versatron 14QS Turret	X	X	X				
205	9700	MSO Starfire HD Turret	X			X	X		
206	9700	MSO MX-15PS Turret	X					X	X
207	9700	MSO SADS / ISADS Computer	X	X	X	X	X	X	X
208	9700	MSO NSIU Computer	X	X	X	X	X	X	X
209	9700	MSO SADS Handgrip	X	X	X	X	X	X	X
210	9700	MSO SADS Integrated Keyboard/Trackball	X	X	X	X	X	X	X
211	9700	MSO SADS Removable Drive	X					X	X
212	9700	RT MSO SADS Flat Panel Display	X	X	X	X	X	X	X
213	9700	LT MSO SADS Flat Panel Display	X					X	X
214	9700	FLIR Position Annunciator P/CP	X						
215	9700	MSO Control Annunciator Assembly	X	X	X				
216	9700	MSO Camera Control Unit (CCU) (2)	X	X16	X16				
217	9700	Novatel GPS System	X						
218	9700	MSO KS-87 camera (2) includes light sensor	X						
219	9700	MSO KS-87/EO-F985C Lens/Filter	X						

ITEM #	ATA	System/Subsystem	Full System List	Basic System List		Basic System List		Basic System List	
				Legacy Systems		Block 20		Block 25	
				ISR	Training	ISR	Training	Mission	Training
220	9700	MSO KS-87 Data Annotation Unit (2)	X						
221	9700	MSO EO-985C Camera	X	X	X				
222	9700	MSO EO-985C Camera PEU	X	X	X				
223	9761	MSO Digital Video Recorder (2)	X						
224	9761	MSO Video Cassette Recorders (2)	X						
225	9761	MSO EO-985C Camera SPS	X						
226	9761	MSO SADS Printer	X						
227	9761	MSO FLIR Gear Warning System	X	X	X				
228	9761	MSO FLIR Retraction Handle	X	X	X				
229	9761	Video Select Unit	X					X	X
230	9761	Ethernet Switch/Router	X					X	X
231	9761	MSO Laser Illuminator Control Panel	X			X	X	X	X
232	9761	MSO ICS Control Panel	X	X	X	X	X	X	X
233	9761	Mission Power Control Panel	X	X	X	X	X	X	X
234	9761	MSO SADS / ISADS Control Panel	X	X	X	X	X	X	X
235	9761	Pilot Laptop	X					X	X
236	9761	HPW Laptop	X					X	X
237	9761	Cockpit Display Unit	X						
238	9761	Classified Mission Equipment	X					X	X
	9900	**Self Protection**							
239	9930	AN-ALE-47 Counter Measures Dispenser System	X			X4	X4	X4	X4
240	9930	AN-AAR-47 Mlssife Warning Sensor System	X			X4	X4	X4	X4

NOTES:

1. NMC if manual is inoperative.
2. NMC if automatic is inoperative.
3. Warm weather ops with air conditioner inoperable may severely degrade crew/passenger performance, mission status at pilot discretion.
4. Required OCONUS.
5. PMC if both RMU 556 Control Display Units are operative

6. NMC if KY-58 is Required. (KY-58 is Maintained by Military)
7. Required for Over Water Operations.
8. Required for pod power application.
9. Each engine required to have one operable boost pump.
10. PMC if both low hydraulic pressure warning lights are operative.
11. NMC if either low hydraulic pressure light is inoperative.
12. NMC for night. PMC for day.
13. NMC if both beacon and strobe lights are inoperative. PMC if at least one bulb is operative in each lens.
14. NMC if both IFF/SIF and commercial transponder are inoperable. NMC when Mode 4 required for Military Operations.
15. NMC if gyro pitch and band indicators are inoperative on both sides.
16. PMC with 1 operative.
17. PMC if low suction annunciator is inoperable.
18. NMC if either bypass valve failed in open position. PMC if either or both bypass valves are failed in the closed position.
19. If installed.
20. PMC if magnastick and Fuel Consumed Indicators are operative.
21. 2 SATCOMs (if installed) required when mission requires datalink and voice.
22. Required for NVG OPS.
23. PMC with 1 operative and 2 operative ARC-231.
24. PMC with 1 operative and 2 operative PRC-117/F.

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Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFI 11-202V3, *General Flight Rules*

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

Abbreviations and Acronyms

ACC—Air Combat Command

ANG—Air National Guard

BSL—Basic Systems List

DOC—Design Operational Capability

FMC—Fully Mission Capable

FSL—Full Systems List

HQ—Headquarters

IAW—In Accordance With

ISR—Intelligence, Surveillance, and Reconnaissance

MAJCOM—Major Command

MC—Mission Capable

MESL—Minimum Essential Subsystem List

MRA—Mission Ready Available

NGB—National Guard Bureau

NMC—Not Mission Capable

SORT—Status of Resources and Training System

TNG—Training

TST—Test

WUC—Work Unit Code