

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



**AIR FORCE INSTRUCTION 21-103
ACC SUPPLEMENT_ADDENDUM_EE
16 AUGUST 2011**

Maintenance

***EQUIPMENT INVENTORY, STATUS, AND
UTILIZATION REPORTING SYSTEM/RD-2B
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*. It applies to all RQ-4 ACC units to include deployed locations. This addendum applies to Air National Guard and Air Force Reserve Command units and members. Maintain records created as a result of prescribed processes in accordance with (IAW) AFMAN 33-363, *Management of Records*, and dispose of them IAW the AF Records Disposition Schedule, available from the Air Force Portal at the AF Records Information Management System link. Contact supporting records managers as required. Send recommended changes or comments on AF Form 847, *Recommendation for Change of Publication*, to HQ ACC/A4YQ, 130 Andrews St, Suite 211, Langley AFB, VA 23665-2791, and send information copies to the applicable Office of Collateral Responsibility.

SUMMARY OF CHANGES

This document is substantially revised and must be completely reviewed. This incorporates the lessons learned after eight months of ground station utilization. Systems were added and deleted to more accurately reflect installed configurations. Mission system requirements were also refined through more descriptive notes.

1. General. The MESL is the basis of status reporting IAW AFI 21-103. MESLs lay the ground work for reporting the status of ground station availability. They list the minimum essential systems and subsystems that must be operational on a ground station for it to perform specifically assigned unit training, contingency, wartime, training, test or other missions.

Mission Ready Available (MRA) is used in readiness Status of Resources and Training System (SORTS) reporting only and denotes Mission Capable (MC) ground station capable of being configured for a contingency mission IAW Commander Air Combat Command (COMACC) OMNIBUS Plan.

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

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

1.3. All ACC units will generate, or deploy and regenerate, using ACC 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 Full Systems List (FSL) and all applicable Basic Systems List (BSL) across the page. Each unit's Design Operational Capability (DOC) statement determines applicability of BSL columns. The ground station MESLs incorporate all ACC assigned ground station; therefore, it is important to compare only those columns listed in the MESL that are applicable to the unit's assigned ground station. For example, units with CC (wartime) coded ground station would determine and report status using only the FSL and BSL columns related to their DOC statement. Units with TF (training) coded ground station would determine and report status using only the FSL and TNG columns. Units with multiple coded ground station will ensure status is reported using the MESL columns appropriate to the individual ground station assignment code.

Table 1. RD-2B MESL.

				BSL			
NO.	WUC	SYSTEM/SUBSYSTEM	FSL	RT	Test	Tng	Sim
1.	10	Shelter	X	X8			
2.	41	Environmental Control System	X	X8	X	X	X
3.	42A/B	UPS & Generator (LRE Backup Pwr)	X	X2,8	X9	X9	
4.	42C	LRE Power Distribution	X	X8	X	X	X
5.	48B	C2 Data Logger	X	X8	X	X	
6.	57A/B	See & Detect System (Including TCDL)	X				
7.	57C	DGPS	X	X3,8	X3	X3	
8.	57D	C2 Workstation	X	X8	X	X	X
9.	59A	Crew Communications Audio	X	X8	X	X	X

		Integration					
10.	59B	Voice over IP	X	X6,8	X6	X6	
11.	63	ATC Voice LOS Communications	X	X4,8	X4	X4	
12.	68A	UHF Data Communications Satcom	X	X5,8	X5	X5	
13.	68A	UHF Data Communications LOS	X	X5,8	X5	X5	
14.	68C	INMARSAT	X	X5,8	X5	X5	
15.	69AC/D	COMSEC for UHF Data Communications (LOS & SATCOM)	X	X8	X	X	
16.	69BA	Black Network Interface Device	X	X8			
17.	69BB	Red Network Interface Device	X	X8	X	X	
18.	69BD/ E/F	Voice STE	X	X6,8	X6	X6	
19.	69C	GPS Timing	X	X8	X	X	X
20.	69DA	Personal Computing Device	X	X8	X	X	
21.	69DB/C	Narrow Band Interface Unit (NBIU)	X	X8	X	X	X
22.	69DD/E	Ground Communications Interface (GCI)	X	X8	X	X	
23.	69E	Collision Avoidance (RACD or Equivalent)	X 10	X8, 10	X 10	X 10	
24.	82A	Computer Peripherals	X	X8	X	X	X
25.	82B	Ethernet & ATM Networking Equipment	X	X8	X	X	X
26.	83	GICS Simulator	X	X8			X
27.	84	Mission Planning	X7	X7,8			
28.	96	Equipment/Furnishings	X1	X1,8	X1	X1	X1
Test - A test mission flown under guidance of either AFFTC or 53TW							
Tng - Any mission whose primary purpose is Ops training, whether BQ, MQ or RAP							
Sim - A training event not involving an aircraft							
QUALIFYING NOTES:							
1. At least one safe required for bare-base deployed operations.							
2. As required at forward operating locations to assure a stable supply of power to the system.							
3. Either SCAT-1 or OmniStar DGPS corrections are required for all flights.							
4. Either aircraft or LRE voice must always be available.							

5. Two data links to the aircraft are required during launch and recovery. One of these must be to the LRE.
6. With OG/CC approval, Ops may elect to fly an operational, test, or training mission with either VoIP or voice STE inoperative.
7. Backup to normally available stand-alone mission planning capability.
8. While the LRE is normally required for all missions, based on mission criticality and/or system availability, Ops may elect to fly an operational mission, a ferry mission, or a divert recovery mission without one.
9. For LRE only operations
10. applicable only to LREs based in the US for operations outside of class A or restricted airspace

WILLIAM M. FRASER III, General. USAF
Commander

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

AFI 11-202V3, (<http://www.e-publishing.af.mil/pubfiles/af/11/afi11-202v3/afi11-202v3.pdf>),
General Flight Rules

AFI 21-103, (<http://www.e-publishing.af.mil/pubfiles/af/21/afi21-103/afi21-103.pdf>),
Equipment Inventory, Status, and Utilization Reporting

Abbreviations and Acronyms

ACC—Air Combat Command

BSL—Basic Systems List

DOC—Design Operational Capability

FMC—Full Mission Capable

FSL—Full Systems List

IAW—In Accordance With

MAJCOM—Major Command

MC—Mission Capable

MESL—Minimum Essential Subsystem List

MRA—Mission Ready Available

NMC—Not Mission Capable

SORTS—Status of Resources and Training System

WUC—Work Unit Code