

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



**AIR FORCE INSTRUCTION 21-103**

**AIR COMBAT COMMAND Supplement**

**ADDENDUM\_R**

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**Maintenance**

**MISSION STATUS REPORTING TOOL  
(MSRT), MINE RESISTANT AMBUSH  
PROTECTED FAMILY OF VEHICLES  
(MRAP FOV)**

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This MSRT compliments AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*. It applies to all MRAP units. MSRTs apply to all Air Combat Command Units (ACC), PACAF, USAFE, ANG, AMC, AETC, and Reserve units possessing Air Force MRAPs. Send recommended changes or comments on AF Form 847, *Recommendation for Change of Publication*, to HQ ACC/A4RV, 130 Douglas St., Suite 312A, Langley AFB VA 23665-2791, and send information copies to the applicable OCR. This publication may be supplemented at any level and requires OPR coordination and approval. Ensure that 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.

**1. General.** The MSRT is the basis of status reporting IAW AFI 21-103, chapter 5. MSRTs lay the ground work for reporting the status of MRAP mission capability (MC). The MSRT lists the minimum essential systems and subsystems that must work on an MRAP for it to perform specifically assigned unit wartime, training, test, or other missions. The MSRT allows users to compare MRAP systems, subsystems, and components, by Work Unit Code (WUC), against the MC status across the table. The MC status is defined in terms of Fully Mission Capable (FMC), Partially Mission Capable (PMC), and Non Mission Capable (NMC).

1.1. All units operating MRAPs will use an MSRT as a guide in determining MC status. ACC MSRTs are the standard to be followed, however, MAJCOM differences in MSRTs are acknowledged. Upon actual assignment/deployment to another MAJCOM/COCOM, the gaining MAJCOM/COCOM has the responsibility to accept and use this MSRT or modify it based on mission requirements to facilitate accurate MC status reporting.

**2. Reading the MSRT (table 1).** The MSRT is read by comparing the systems stated by WUC to the MC status across the page. Each unit's mission tasking determines applicability of NMC, PMC and FMC columns. The MRAP MSRT incorporates all USAF, ANG and AFR assigned MRAPs, therefore it is important to compare only those columns listed in the MSRT which are applicable to the unit's assigned MRAPs.

2.1. Report an MRAP that can perform all its assigned missions as FMC.

2.2. Report an MRAP that can perform at least one, but not all, assigned missions as PMC.

2.3. Report an MRAP that cannot perform any of its assigned missions as NMC.

2.4. Qualifying notes on the MSRT are used to distinguish requirements by different users, as well as, define MRAP exceptions and help explain complex degraded mission systems such as communications equipment.

2.4.1. For example, units with CC (wartime) coded MRAPs would determine and report status using most of the systems and subsystems in the NMC, PMC and FMC columns related to their mission taskings. Units with TF (training) coded MRAPs, would determine and report status using fewer systems and subsystems in the NMC, PMC and FMC columns. Units with multiple coded MRAPs would ensure status is reported using the MSRT columns appropriate to the individual MRAP assignment code.

2.4.1.1. In the case of a TACP unit with a CC coded MRAP with an inoperative transmission. Using WUC 18000, qualifying note 2, the MRAP status would be NMC based on the MSRT.

2.5. Operational unit Group Commander or equivalent may down grade NMC conditions after risk assessment is accomplished.

2.5.1. Operational unit Group Commander or equivalent may modify MSRT as mission dictates provided risk assessment has been accomplished.

Table 1. MRAP MSRT.

(MRAP) MISSION STATUS REPORTING TOOL (MSRT)					
NO.	WUC	SYSTEMS	NMC If not working	PMC if not working	FMC if not working
1	11000	Chassis	(1,2,3,4,5,7)	(6)	
2	12000	Body	(1,2,3,4,5,7)	(6)	
3	13000	Suspension, Wheels, Brakes	(1,2,3,4,5,7)	(6)	
4	14000	Steering	(1,2,3,4,5,7)	(6)	
5	18000	Transmission	(1,2,3,4,5,7)	(6)	
6	19000	Starting System	(1,2,3,4,5,7)	(6)	
7	21000	Engine	(1,2,3,4,5,7)	(6)	
8	35000	Emission, Exhaust	(1,2,3,4,5,7)		(6)
9	36000	Drive Train	(1,2,3,4,5,7)	(6)	
10	41000	HVAC	(2,3,5,7)	(1,6)	(4)
11	42000	Electrical Power Supply	(1,2,3,4,5,7)	(6)	
12	43000	Electrical System	(1,2,3,4,5,7)	(6)	
13	45000	Hydraulic & Pneumatic Power	(1,2,3,4,5,7)	(6)	
14	46000	Fuel System	(1,2,3,4,5,7)	(6)	
15	91A00	Fire Suppression System	(1,2,3,4,5,7)	(6)	
16	Applicable	Safety Items/Systems	(1,2,3,4,5,7)	(6)	
17	78CA0	AN/VRC-103	(2,1)	(2,1,7)	(1,3,5)
18	78BC0	AN/VRC-104		(2,7)	(1,3,5)
19	78CC0	AN/VRC-110	(1,3,5)	(7)	
20	78CD0	AN/VRC-111	(2,1)	(2,1,7)	(1,3,5)
21	78CF0	AN/VIC-3 (Intercom System)	(1,4)	(3,5)	(7)
22	78DA0	AN/UYK-128 (Blue Force Tracker)	(1,3,4,5,7)	(2)	
23	78EB0	AN/VLQ-13 (CVRJ)	(1,2,3,4,5,7)		
24	78BB0	Drivers Vision Enhancer (DVE)		(1,2,3,4,5,7)	
25	78DCA	EPLRS		(2)	(1,3,5,7)
26	78BD0	AN/VSQ-6A (Gyrocam)		(5)	(1,4,7)
27	78G00	Remote Weapons System		(1,2,5)	(4,7)
28	78EC0	RHINO		(7)	(1,3,4,5)
29	78BC0	Check Six System		(1,2)	(3,4,5,6,7)
30	78CG0	TOCNET		(1,2,3,4,5)	(7)
31	78CH0	ROVER		(1,2)	(3,4,5,7)
32	78DB0	DAGR	(1,3,4,5,7)	(2)	
33	78EA0	AN/VLQ-12 (DUKE)	(3,4,5)	(7)	(1)
34	78ED0	SPARK			(1,3,5,7)
35	78FA0	BOOMERANG			(1,3,4,5,7)
36		RPG Netting		(1,2)	(3,4,5,7)
DEFINITIONS: WUC (Work Unit Code), NMC (Not Mission Capable), PMC (Partially Mission Capable), FMC (Fully Mission Capable)					
1. Security Forces (SF)					
2. Tactical Air Control Party (TACP)					
2.1. If both AN/VRC-103 or 111 are not working it's NMC if one is working it's PMC for TACP					
3. Red Horse (RH)					
4. Office of Special Investigations (OSI)					
5. Explosive Ordnance Disposal (EOD)					
6. Air Education Training Command (AETC)/Training Squadron					
7. Air Mobility Command (AMC)					
Operational Group Commander or equivalent may down grade NMC conditions after risk assessments accomplished					
Operational Group Commander or equivalent may modify MSRT as mission dictates provided risk assessments accomplished					

MARK A. ATKINSON, Major 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

AFMAN 33-363, *Management of Records*, 1 March 2008

***Prescribed Forms***

This supplement does not prescribe any forms.

***Adopted Forms***

AF Form 847, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

**ACC**—Air Combat Command

**AETC**—Air Education Training Command

**AF**—Air Force

**AFI**—Air Force Instruction

**AMC**—Air Mobility Command

**ANG**—Air National Guard

**CC**—Combat Coded

**COCOM**—Combatant Command

**HQ**—Head Quarters

**MAJCOM**—Major Command

**MC**—Mission Capable

**OCR**—Office of Collateral Responsibility

**OPR**—Office of Primary responsibility

**PACAF**—Pacific Air Forces

**TACP**—Tactical Air Control Party

**TF**—Training Flight

**USAFE**—United States Air Forces in Europe

**WUC**—Work Unit Code

***Terms***

This supplement does not contain any new terms.