

UNITED STATES MARINE CORPS  
MARINE CORPS SYSTEMS COMMAND  
814 RADFORD BLVD  
ALBANY, GEORGIA 31704

IN REPLY REFER TO  
11240  
PM EPS JAW  
29 MAR 04

From: Team Leader, Mobile Electrical Power, (MEP-805B)  
Generator Set, Maintenance Task Alignment Panel  
(MTAP)

To: Realignment of Maintenance Steering Team (ROMST) ,  
Via: (1) Program Manager (PM) , Expeditionary Power  
Systems  
(2) Product Group Director (PGD) , Ground  
Transportation and Engineering, Systems, (GTES) ,  
PG-15

Subj: MEP-805B MTAP PHASE II REPORT

Ref: (a) R 151833Z DEC 03, MARADMIN 581/03  
(b) R 311808Z DEC 03, Pilot Task to TAMCN (T2T)  
Individual Training Standards (ITS) Analysis

Encl: (1) MEP-805B Realignment of Maintenance (ROM) MTAP  
Charter  
(2) Maintenance Allocation Chart (MAC) for TM 09249B/  
09246B-14/1 and TM 09249B/2815-24/3  
(3) MTAP MEP-805B Recommendations for Migrating  
Functions and Tasks  
(4) MTAP Source Maintenance Recoverability (SMR)  
Code Recommendations

1. Purpose. Per the references, the MTAP Analysis was conducted at the Marine Corps Engineer School on March 2 through 9, 2004 to assess each maintenance task associated with the Mobile Electrical Power (MEP) 805B Generator. The analysis provides the baseline data for the current maintenance system to transition from 5 Echelons of Maintenance (EOM) to 3 Levels of Maintenance (LOM). The completion of Phase II will provide the data needed to begin Phase III (Conversion).

2. MEP-805B MTAP T2T/ITS Analysis Members

<b>Rank/Name</b>	<b>Unit/MSC</b>	<b>MOS</b>
CWO5 Mizner, R.	MCES, TECOM	1120
MGySgt Calkins, J.	MCES, TECOM	1169
MSgt Watts, J.	MARCORSYSCOM (Team Lead)	1169
GySgt McCue, F.	MCES, TECOM	1169
Sgt Kudzal, R.	8 <sup>th</sup> ESB, 2 <sup>nd</sup> FSSG, CLNC	1142
Cpl Martell, N.	MWSS 272, MCAS, CLNC	1142
LCpl Sweeney, L.	2 <sup>nd</sup> CEB, 2 <sup>nd</sup> MARDIV, CLNC	1141
PFC George, R.	Student, MCES (Recorder)	1100
Pvt Crenshaw, J.	Student, MCES (Recorder)	1100

**Ad Hoc: ROMST**

Mr. Chappell, R.	AC Prod. Supt, MARCORSYSCOM	N/A
Ms. Boddy, N.	Lead Acq. Log, MARCORSYSCOM	N/A
Mr. Chandler, J.	ILC, LOA, MCLCAT, MCB CLNC	N/A

**3. Executive Summary.**

Purpose. CMC R 311808Z DEC 03 (PILOT TASK TO TAMCN (T2T) INDIVIDUAL TRAINING STANDARD (ITS) ANALYSIS LOI) directed that a pilot Task to TAMCN (T2T) analysis be conducted on the Mobile Electrical Power (MEP) 805B Generator Set using the Course Content Curriculum Review Board (CCRB)/ Individual Training Standard (ITS). The overarching goal of this pilot is to provide a means to assess which structure, methodology and processes will best support the Marine Corps need for collecting baseline data with which to access the impact of the realignment of maintenance (ROM) effort.

The results of the MEP-805B study as contained in this report should be evaluated and compared with the results of the three other programs utilizing the CCRB efforts and the Highly Mobile Multi-Purpose Wheeled Vehicle (HMMWV) Reliability Centered Maintenance (RCM) II process.

The MTAP started the analysis process by grouping the major components, assembly, and sub-assemblies of the Generator Assembly (less the engine) and Engine Assembly, "As Is" state, and realigning each tasks as it applies in the current Maintenance Allocation Chart (MAC) to either the

organization, intermediate, or the depot levels. The evaluation identified operator and maintenance procedures for direct and general support, and Preventive Maintenance Checks and Services (PMCS) for each task to determine whether the operator could accomplish inspecting, servicing, testing, replacing, remove, install, and repairing with the common shop tools. The MTAP suggested the idea of additional tools within the SL-3 of the generator set, and the possibility of having a General Mechanics Tool Kit for the operator. "As mentioned above, each tasks was referenced to the Unit, Direct, General Support Maintenance Procedures to ensure it aligned with-in the purview of maintenance for that level of repairs.

The technical manuals were reviewed and were aligned with the functions and tasks from the MAC. Technical manual changes were captured as they were being analyzed by the MTAP. The MTAP made a consensus agreement to recommend updating technical manuals to reflect the migration of maintenance task. Some SMR codes as a result of this analysis will have to change where the task migrated up or down. The MTAP initially considered the "Incidental Operator" when evaluating every task. Subsequently, making the assumption that the owning unit Table of Organization (T/O) structure will contain the 1141 and 1142 Military Occupational Specialty (MOS) per the ROM definition. The MTAP adopted the principle that the owning unit T/O would reflect the personnel necessary to perform these tasks.

Upon determining task migration the MTAP decided on certain criteria, guidelines and principles to adhere to. These principles were guided by the unique structure of the Utilities Occupational Field (OCC FLD) 1100. The Basic Electrician (1141) and Electrical Equipment Repair Specialist (1142) Military Occupational Specialty (MOS) community work hand-in-hand. Specifically, the 1142's are the "Mechanics" and the 1141's are the "Operators". The operators are trained to perform a certain level of Preventive Maintenance Checks and Services (PMCS), and with On-the-Job-Training (OJT) develop the skills to perform limited corrective maintenance (CM). The majority of maintenance tasks listed in the technical manual are within the purview of the current 2<sup>nd</sup> Echelon of Maintenance (EOM).

The difficulty in determining the direction of migration for each task was in the current Table of Organization (T/O) structure of the operating forces. The operating

forces, particularly in the 2<sup>nd</sup> Force Service Support Group (FSSG) were reorganized under the Intergraded Logistics Concept (ILC). This concept removed the mechanic from the organizational units. Consequently, having the effect of removing their 2<sup>nd</sup> echelon capabilities.

The MTAP made a consensus agreement that most current 2<sup>nd</sup> echelon tasks could be performed at the organizational level if the unit T/O structure contained both the 1141 and 1142 MOS. The MTAP made the assumption on the principle that unit T/O would be structured of the personnel necessary to perform the maintenance tasks. The MTAP disregarded the notion of the "Incidental Operator" where maintenance above the current 1<sup>st</sup> echelon was concerned. The MTAP came to a consensus agreement that with the complexity of the MEP-805B generator set the incidental operator would not be likely to attempt nor be expected to repair a generator set under battlefield conditions. Under those conditions the incidental operator would have to request maintenance support from a higher level. The Electrical Equipment Repair Specialist (1142) would be requested to provide the maintenance support.

The MTAP worked with the following assumptions when determining which direction to migrate a task:

- a) Organizations that own generator sets will have within their T/O qualified 1141/1142's.
- b) Incidental operators would not be expected to perform any maintenance above the current 1<sup>st</sup> EOM. These tasks are currently taught in all operator courses.
- c) The necessary tools and test equipment required for organizational maintenance need to be provided, e.g., Common No. 1 and General Mechanics Tool Kit.

Working under these principles we determined that owning organizational units could perform most of the current 2<sup>nd</sup> echelon tasks. Some tasks were migrated upwards if a consensus determined that the difficulty of repair was beyond the capability of the unit level, or if the repair required extensive disassembly of the generator.

The MTAP final conclusion was to recommend the owning organization perform the maintenance tasks that will empower the commander to sustain the equipment to a level readiness far greater and much quicker than the current process. Theoretically, if the T/O force structure is in

place it will not create any additional maintenance burden. Finally, this implementation will ultimately relieve the enormous workload currently at the General Support Maintenance (GSM) that performs a vast number of tasks, which in reality could be done at the owning organization.

4. GTES PG-15 MEP-805B POC is MSgt James A. Watts, DSN 567-5033, COMM (229) 639-5033, Email [wattsja@logcom.usmc.mil](mailto:wattsja@logcom.usmc.mil)

J. A. WATTS

# DRAFT

## CHARTER FOR THE MEP-805 GENERATOR (TAMCN B0953) MAINTENANCE TASK ALIGNMENT PANEL (MTAP)

1. **Purpose.** This Charter establishes the MEP-805 Generator (B0953) Maintenance Task Alignment Panel (MTAP) to support the management, planning, and implementation of the Realignment of Maintenance (ROM) Initiative into the Marine Corps Logistics Modernization (LM) effort.

2. **Background.** The ROM Working Integrated Process Team (WIPT) conducted in October 2003 identified the requirement to first determine where maintenance tasks associated with the old five echelons of maintenance (EOM) would be realigned under the new three levels of maintenance (LOM) policy in order to map maintenance production processes and establish supporting policy. MARADMIN 581/03 formally established the three LOM and identified the requirement to identify/collect baseline data on the impacts and resources required to transition different types of legacy (currently fielded) equipment to three LOM. This baseline data will then be used to estimate Program Objective Memorandum (POM) resources required to effect this transition and plan the way ahead.

3. **Functions.** The MEP-805 MTAP is a project team convened by the ROM Steering Team (ROMST) and designed to align the maintenance tasks and associated Individual Training Standards (ITS) of the MEP-805 to the new three LOM. Once those tasks are aligned, the MTAP will identify the impacts, resources and time required to execute this realignment.

4. **Membership.** The MEP-805 MTAP is comprised of Subject Matter Experts (SMEs) from MARCORSYSCOM, TECOM, MARCORLOGCOM and the Operating Forces.

a. Permanent Members:

- (1) MARCORSYSCOM OIC
- (2) TECOM, Utilities Maintenance Course SME
- (3) COMMARFORLANT, (1) MOS 1120
- (4) COMMARFORLANT, (1) MOS 1169
- (5) COMMARFORLANT, (1) MOS 1141
- (6) COMMARFORLANT, (1) MOS 1142
- (7) COMMARCORLOGCOM Depot Maintenance SME

b. Associate members from the below organizations will participate on an as-required, when-requested basis:

- (1) Original Equipment Manufacturer (OEM) Rep

5. **Roles and Responsibilities**

a. Senior Member, MARCORSYSCOM

- (1) Chair the MEP-805 MTAP
- (2) Establish a Program of Action and Milestones (POA&M) to accomplish the MTAP mission.

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- (3) Coordinate with the host command, Marine Corps Engineer Schools (MCES), Camp Lejeune, NC, to ensure necessary equipment, facilities, support equipment and publications are available to the MTAP.
  - (4) Ensure MTAP mission, objectives and charter is accomplished.
  - (5) Request additional support as required from MARCORSYSCOM.
  - (6) Document all MTAP proceedings, assumptions, products and lessons learned.
  - (7) Report results of the MTAP and lessons learned to the ROMST.
- b. Senior Member, TECOM
    - (1) Publish coordinating instructions NLT 3 wks prior to commencement of the MTAP. (LOI Msg, DTG)
    - (2) Serve as the POC for any coordination issues concerning TECOM.
    - (3) Participate in the MTAP.
  - c. Panel Members
    - (1) Participate in the MTAP.

6. **Frequency**. The MEP-805 MTAP is only scheduled to meet once. However, the MTAP will remain active until the MTAP mission is accomplished.

7. **Duration**. The MEP-805 MTAP is scheduled to meet at MCES, Camp Lejeune, NC from 1-13 March 2004. However, the MTAP will remain active until the MTAP mission is accomplished.

8. **Reporting Requirements**. The results of the MEP-805 MTAP will be documented and presented (electronically and physically) to the ROMST as follows:

- a. Program of Action and Milestones (POA&M) to complete MTAP mission (due 2 Apr 04)
- b. Recommended maintenance allocation chart aligned to three levels of maintenance. Include maintenance task migration rationale and any identified issues (due 2 Apr 04).
- c. System impact/supportability assessment. Include steps required for transition, timeline, costs, etc. (due date TBD—per POA&M)
- d. After action report that documents MTAP proceedings, assumptions, products and lessons learned. (due 2 Apr 04)

## 9. **Assumptions**

- a. Supply and maintenance systems will not detract from performance of maintenance tasks.
- b. Repair parts will be available as required.

## 10. **Guiding Principles**

- a. All maintenance tasks (1<sup>st</sup> – 5<sup>th</sup> EOM) associated with the MEP-805 will be analyzed.
- b. Typically, old EOM-based tasks align to current LOM as follows;
  - (1) 1<sup>st</sup> Echelon                                  Operator Level

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(2) 2d-4 <sup>th</sup> Echelon	Intermediate Level
(3) 5 <sup>th</sup> Echelon	Depot Level

c. In order to migrate a task to a level that doesn't correspond to the EOM listed above, the following two (2) questions, at a minimum must be answered in the affirmative;

- (1) **Can** we migrate the maintenance task? If no, do not migrate the task. If yes, proceed to question (2).
- (2) **Should** we migrate the maintenance task? In order to answer these questions, the following migration criteria will be used:

d. Migration Criteria

- (1) Are the required tools, equipment and training available? "Available" is defined as part of the current operator ITS and SL-3 for the vehicle/end item.
- (2) Can the task be accomplished without special tools or TMDE?
- (3) Will the migration of the task cause a degradation of safety?
- (4) If performed incorrectly, will the task render the vehicle not mission capable or create an unsafe condition for the operator?
- (5) Will the addition of the task require more than 1 day (8 hours) to train the operator? Training may be core (conducted in the schoolhouse) or core plus (conducted in the operating forces).
- (6) Can the task be performed on the battlefield?

e. The organization that the I Level mechanic comes from should not effect the task alignment. For example, if a task is judged to be an I Level task, whether the mechanic is from the organization owning the equipment or from a supporting CSSE should not matter.

f. Additional considerations:

(1) All criteria are waivable **with appropriate justification**. For example. A 155 Howitzer Artilleryman requires a torque wrench to change a tire. The torque wrench isn't available in the weapon system's SL-3 and the Artilleryman would require training to use the torque wrench correctly. However, if a torque wrench is "readily" available (w/an I Level mechanic in the unit for ex.) and use of the torque wrench could be taught easily, it might be considered as an appropriate task to migrate.

(2) Will the task create hazardous material? If migrating a task would create a significant hazardous material product that would have to be managed by the operator, the additional requirements for special equipment and training might cause the task to be an inappropriate candidate for migration.

(3) Tasks identifiable and/or associated with pre/post operations PMCS offer good examples of maintenance task migration opportunities. Note: Expect PMCS reduction opportunities to be placed in "parking lot" until such time as maintenance engineering/RAM-D analysis can be accomplished, TAD funding sourced, etc...

(4) Task migration analysis previously conducted during the 2002 "2 to 1" effort, TECOM's Quick Look T2T/ITS analysis and/or the army's maintenance task analysis will be provided to the MTAPs. These results are available for consideration and are not to be viewed as directive or restrictive.

MAINTENANCE ALLOCATION CHART (AS IS)						MTAP RECOMMENDATION															
TAMCN:	B0953					TAMCN:	B0953														
Model:	MEP-805B					Model:	MEP-805B														
TM 09249B/09246B-14/1 Unit Maintenance Procedures						TM 09249B/09246B-14/1 Unit Maintenance Procedures															
General and Direct Support						General and Direct Support															
Maintenance Level						REMARKS															
Unit						Function															
Group/System	EOM	O	F	H	D	Function	O	I	D												
Generator Set, Less (00)		1	2	3	4	5															
Engine						Group/System															
<b>Note: Echelon of Maintenance (EOM)</b>						Generator Set, Less															
<b>Note: Red "X" indicates recommended function for a component, assembly or sub-assembly.</b>						Engine (00)															
<b>DC Electrical System (01)</b>						Note: The (X) Designates the lowest level of maintenance function authorized to conduct a maintenance task on the component, sub-component, assembly or sub-assembly.															
Batteries	Test	X				DC Electrical System (01)															
	Remove	X				Batteries	Test	X													
	Inspect	X					Remove	X													
	Service	X					Inspect	X													
	Install	X					Service	X													
							Install	X													
Battery and Slave Receptacle Cables	Inspect	X				Battery and Slave Receptacle Cables	Inspect	X													
	Remove	X					Remove	X													
	Service	X					Service	X													
	Repair	X					Repair	X													
	Install	X					Install	X													
Nato Slave Receptacle	Inspect	X				Nato Slave Receptacle	Inspect	X													
	Remove	X					Remove	X													
	Install	X					Install	X													

MAINTENANCE ALLOCATION CHART (AS IS)							MTAP RECOMMENDATION							
TAMCN:			B0953				TAMCN:			B0953				
Model:			MEP-805B				Model:			MEP-805B				
TM 09249B/09246B-14/1 Unit Maintenance Procedures							TM 09249B/09246B-14/1 Unit Maintenance Procedures							
General and Direct Support							General and Direct Support							
Maintenance Level							REMARKS							
Group/System	Function	Unit			Direct		General		Depot					
		C	O	F	H	D	Group/System	Function	O	I	D			
EOM	Function	1	2	3	4	5	Housing (02)							
Housing (02)														
Access Doors							Access Doors	Remove	X					
Remove								Repair	X					
Inspect								Inspect	X					
Install								Install	X					
DCS Control Box Top Panel							DCS Control Box Top Panel	Remove	X					
Remove								Inspect	X					
Inspect								Repair	X					
Install								Install	X					
Top Housing Section							Top Housing Section	Remove	X					
Remove								Inspect	X					
Inspect								Repair	X					
Install								Install	X					
Front Housing Section							Front Housing Section	Remove	X					
Remove								Repair	X					
Inspect								Inspect	X					
Install								Install	X					
Rear Housing Section							Rear Housing Section	Remove	X					
Remove								Repair	X					
Inspect								Inspect	X					
Install								Install	X					
Housing Data Plates							Housing Data Plates	Inspect	X					
Inspect								Install	X					
DCS Control Box Assembly (03)							DCS Control Box Assembly (03)							

MAINTENANCE ALLOCATION CHART (AS IS)						MTAP RECOMMENDATION						
TAMCN:		B0953		TAMCN:		B0953						
Model:		MEP-805B		Model:		MEP-805B						
TM 09249B/09246B-14/1 Unit Maintenance Procedures						General and Direct Support						
General and Direct Support						REMARKS						
Maintenance Level												
Unit						Unit	Direct	General				
C						Depot	F	H				
O						D	4	5				
1												
2												
3												
4												
5												
Group/System						Function	O	I				
Panel Lights						Inspect	X	D				
EOM						Repair	X					
Function						Replace	X					
Inspect						Time Meter	Inspect					
Repair						Test	X					
Replace						Replace	X					
Time Meter						Inspect	X					
Test						Test	X					
Replace						Replace	X					
Switches						Switches	Inspect					
Inspect						Test	X					
Test						Replace	X					
Replace						Inspect	X					
Ground Fault Circuit Interrupter						Ground Fault Circuit Interrupter	Inspect					
Inspect						Test	X					
Test						Replace	X					
Replace						Inspect	X					
Computer Interface Module						Computer Interface Module	Inspect					
Inspect						Test	X					
Test						Remove	X					
Remove						Install	X					
Install						Keypad Assembly KP	Inspect					
Keypad Assembly KP						Replace	X					
Inspect						Communication Port	Inspect					
Replace						Replace	X					
Communication Port						Paralleling Receptacle	Inspect					
Inspect						Replace	X					
Replace						Convenience Receptacle	Inspect					
Convenience Receptacle						Test	X					
Inspect						Replace	X					
Test						DCS Load Sharing Synchronizer	Inspect					
Replace						Remove	X					
Install						Install	X					
Test						Test	X					
DCS Speed Control Unit						DCS Speed Control Unit	Inspect					
Inspect						Remove	X					
Remove						Install	X					
Install						Test	X					
Test						Inspect	X					



ROM MTAP MEP-805B  
T2/TTS ANALYSIS

MAINTENANCE ALLOCATION CHART (AS IS)				MTAP RECOMMENDATION			
TAMCN:	B0953	TAMCN:	B0953				
Model:	MEP-805B	Model:	MEP-805B				
TM 09249B/09246B-141 Unit Maintenance Procedures				TM 09249B/09246B-141 Unit Maintenance Procedures			
General and Direct Support				General and Direct Support			
Maintenance Level							
Unit				Direct General Depot			
EOM	C	O	F	H	D	I	D
1	2	3	4	5			
Group/System							
Function				Function			
Auto. Voltage Regulator	Inspect	X		Auto. Voltage Regulator	Inspect	X	
Remove	X			Regulator	Remove	X	
Install	X				Install	X	
Test					Test	X	
Backplane Module	Inspect	X		Backplane Module	Inspect	X	
Replace	X				Replace	X	
Test	X				Test	X	
I/O Interface Module	Inspect	X		I/O Interface Module	Inspect	X	
Replace	X				Replace	X	
Test	X				Test	X	
DC Control Power Fuse (Circuit Breaker)	Inspect	X		DC Control Power Fuse	Inspect	X	
Test	X				Test	X	
Replace	X				Replace	X	
Reactive Current Adjust Rheostat	Inspect	X		Reactive Current	Inspect	X	
Test	X			Adjust Rheostat	Test	X	
Replace	X				Replace	X	
DIODE	Inspect	X		DIODE	Inspect	X	
Test	X				Test	X	
Replace	X				Replace	X	
Resistors	Inspect	X		Resistors	Inspect	X	
Test	X				Test	X	
Replace	X				Replace	X	
Auxiliary Control Brackett	Inspect	X		Auxiliary Control Brackett	Inspect	X	
Remove	X				Remove	X	
Repair	X				Repair	X	
Install	X				Install	X	
Relays	Inspect	X		Relays	Inspect	X	
Remove	X				Remove	X	
Repair	X				Repair	X	
Install	X				Install	X	

MAINTENANCE ALLOCATION CHART (AS IS)							MTAP RECOMMENDATION		
TAMCN:		B0953					TAMCN:		B0953
Model:		MEP-805B					Model:		MEP-805B
TM 09249B/09246B-14/1 Unit Maintenance Procedures									General and Direct Support
Maintenance Level	Unit	Direct	General	Depot			Function	O	I
	C	O	F	H	D		Inspect	X	X
EOM	1	2	3	4	5	Group/System	DC Ctrl. Box Wir. Harness	Test	X
Function							Repair	X	X
DC Ctrl. Box Wir. Harness							Replace	X	X
Inspect	X								
Test		X							
Repair		X							
Replace		X							
CIM Wiring Harness									
Inspect	X								
Test		X							
Remove		X							
Install		X							
DCS Control Panel Frame & Panels									
Remove		X							
Inspect		X							
Repair		X							
Install		X							
DCS Data Plates									
Inspect	X								
Replace		X							
Repair		X							
Keypad Power Supply									
Inspect	X								
Replace		X							
Test		X							
Air Intake and Exhaust System (04)									
Muffler and Exhaust Pipe									
Inspect	X								
Replace		X							

MAINTENANCE ALLOCATION CHART (AS IS)							MTAP RECOMMENDATION			
Group/System	Maintenance Level						Function	REMARKS		
	EOM	C	O	F	H	D		O	I	D
Air Cleaner Assembly	Function						Group/System			
	Remove	X					Air Cleaner Assembly			
	Inspect	X						Remove	X	
	Service	X						Inspect	X	
	Replace	X						Service	X	
								Replace	X	
Crankcase Breather	Service	X					Crankcase Breather			
	Replace	X						Service	X	
								Replace	X	
Filter Assembly	Service	X					Filter Assembly			
	Replace	X						Service	X	
								Replace	X	
<b>Engine Cooling System(05)</b>										
Hoses	Function						Hoses			
	Remove	X						Remove	X	
	Inspect	X						Inspect	X	
	Install	X						Install	X	
Radiator	Function						Radiator			
	Remove	X						Remove	X	
	Inspect	X						Inspect	X	
	Service	X						Service	X	
	Repair	X						Repair	X	
	Install	X						Install	X	
Fan Guards	Function						Fan Guards			
	Remove	X						Remove	X	
	Inspect	X						Inspect	X	
	Install	X						Install	X	
Fan	Function						Fan			
	Remove	X						Remove	X	
	Inspect	X						Inspect	X	
	Install	X						Install	X	
Fan Belt	Function						Fan Belt			
	Inspect	X						Inspect	X	
	Adjust	X						Adjust	X	
	Replace	X						Replace	X	
Coolant Recovery System	Function						Coolant Recovery System			
	Inspect	X						Inspect	X	
	Remove	X						Remove	X	
	Install	X						Install	X	
	Service	X						Service	X	

The "Service" task is an "Operator" function at the "Organizational" level  
Ref: See note (f) in Section IV of the Maintenance Allocation Chart (MAC).

MAINTENANCE ALLOCATION CHART (AS IS)							MTAP RECOMMENDATION						
TAMCN:	B0953			TAMCN:	B0953								
Model:	MEP-805B			Model:	MEP-805B								
TM 09249B/09246B-14/1 Unit Maintenance Procedures	TM 09249B/09246B-14/1 Unit Maintenance Procedures			General and Direct Support	General and Direct Support								
Maintenance Level							REMARKS						
Unit							Unit	Direct	General	Depot			
C	O	F	H	H	D		C	I	I	D			
EOM	1	2	3	4	5	Group/System							
Group/System	(06)			Fuel System (06)			Function	O	I	D			
Fuel System (06)													
Low Pressure Fuel Lines and Fittings	Inspect	X		Low Pressure Fuel Lines and Fittings			Inspect	X					
Auxiliary Fuel Pump	Inspect	X		Auxiliary Fuel Pump			Replace	X					
Fuel Tank Filler Neck	Remove	X		Fuel Tank Filler Neck			Inspect	X					
Fuel Drain Valve	Inspect	X		Fuel Drain Valve			Remove	X					
Fuel Level Sender	Inspect	X		Fuel Level Sender			Inspect	X					
Fuel Pickup	Remove	X		Fuel Pickup			Remove	X					
Ether Cylinder Assembly	Remove	X		Ether Cylinder Assembly			Inspect	X					
Ether Solenoid Valve	Remove	X		Ether Solenoid Valve			Install	X					

MAINTENANCE ALLOCATION CHART (AS IS)							MTAP RECOMMENDATION							
TAMCN: B0953			TAMCN: B0953			Model: MEP-805B			Model: MEP-805B			TM 09249B/09246B-14/1 Unit Maintenance Procedures		
Maintenance Level														
	Unit	Direct	General	Depot										
	C	O	F	H	D									
EOM	1	2	3	4	5	Group/System								
Group/System	Function					Fuel Tank	Function	O	I	D				
Fuel Tank	Remove	X					Remove	X			The fuel tank must be removed before a "inspection" can be performed. This is an "I" level of maintenance task.			
	Inspect	X					Inspect	X						
	Service	X					Service	X						
	Install	X					Install	X						
Fuel Filter/Water Separator	Inspect	X				Fuel Filter/Water Separator	Inspect	X						
	Service	X					Service	X						
Ether Solenoid Relay	Inspect	X				Ether Solenoid Relay	Inspect	X						
	Remove	X					Remove	X						
	Test	X					Test	X						
	Install	X					Install	X						
Output Box Assembly (07)														
Voltage Reconnection	Inspect	X				Voltage Reconnection	Inspect	X						
Terminal Board	Remove	X				Terminal Board	Remove	X						
	Replace	X					Replace	X						
	Install	X					Install	X						
Output Box Wiring Harness	Inspect	X				Output Box Wiring Harness	Inspect	X						
	Remove	X					Remove	X						
	Test	X					Test	X						
	Repair	X					Repair	X						
	Install	X					Install	X						

MAINTENANCE ALLOCATION CHART (AS IS)				MTAP RECOMMENDATION					
				TAMCN: B0953	TAMCN: B0953	Model: MEP-805B			
				TM 09249B/09246B-14/1 Unit Maintenance Procedures					
General and Direct Support				General and Direct Support					
Maintenance Level				REMARKS					
				Unit	Direct	General	Depot		
				C	O	F	D		
				1	2	3	4		
				5					
Group/System				Function	Group/System	Function	Function		
Transformers				Inspect	Transformers	Inspect	O		
EOM				Remove		Remove	I		
Inspect				Test		Test	D		
Remove				Install		Install			
Test									
Install									
AC Circuit Interrupter Relay									
Inspect									
Test									
Replace									
Cranking Relay									
Inspect									
Test									
Replace									
Output Box Panels									
Inspect									
Remove									
Repair									
Install									
Load Output Terminal									
Remove									
Board TB2									
Inspect									
Repair									
Install									
Engine Accessories (08)									
Senders									
Inspect									
Test									
Remove									
Service									
Install									

MAINTENANCE ALLOCATION CHART (AS IS)							MTAP RECOMMENDATION					
TAMCN:	B0953	TAMCN:	B0953									
Model:	MEP-805B	Model:	MEP-805B									
TM 09249B/09246B-14/1 Unit Maintenance Procedures							General and Direct Support					
General and Direct Support							REMARKS					
Maintenance Level												
Unit							Unit	Direct	General			
C							C	O	H			
O							1	2	3			
F							4	5	D			
H												
D							Function	O	I			
5							Group/System	D				
Group/System							Magnetic Pickup MPU	Remove	X			
Magnetic Pickup MPU												
EOM												
Function							Service	X				
Remove							Install	X				
Service							Test	X				
Install												
Test												
Test							Dead Crank Switch	Inspect	X			
Replace							Test	X				
Replace							Replace	X				
Inspect												
Test												
Replace												
Battery Current Transducer							Battery Current Transducer	Inspect	X			
Inspect							Test	X				
Test							Replace	X				
Replace												
Inspect												
Test												
Replace												
Electric Actuator							Electric Actuator	Inspect	X			
Inspect							Test	X				
Test							Replace	X				
Replace												
Lubrication System (09)												
Oil Drain Valve							Oil Drain Valve	Inspect	X			
Inspect							Replace	X				
Replace												
Generator Assembly (10)												
End Bell and Main Bearing							End Bell and Main Bearing	Remove	X			
Remove							Install	X				
Install												
Rotating Rectifier							Rotating Rectifier	Test	X			
Test							Remove	X				
Remove							Repair	X				
Repair							Install	X				
Install												
Faulty voltage regulators have caused main generators to become defective.												
Voltage regulators were not sensing the current in the MEP 806A.												
This allowed a high rate of current to pass through the exciter and stator core. The stator core, exciter and main generator windings were destroyed (anticipate failures with the same manufactured components).												
Diodes in the rectifier will be destroyed if the voltage regulator fails caused by an over voltage and related current increase or surge.												

MAINTENANCE ALLOCATION CHART (AS IS)					MTAP RECOMMENDATION						
TAMCN:		B0953	TAMCN:		E0953	Model:		MEP-805B	Model:		MEP-805B
Model:		MEP-805B	TM 09249B/09246B-14/1 Unit Maintenance Procedures			TM 09249B/09246B-14/1 Unit Maintenance Procedures			General and Direct Support		
Maintenance Level					REMARKS						
Unit	Direct	General	Depot		Function	O	I	D			
C	O	F	H	D	Exciter Stator	Inspect	X				
EOM	1	2	3	4	5	Test	X				
Group/System	Function					Replace	X				
Exciter Stator	Inspect	X									
	Test	X									
	Replace	X									
Exciter Rotor	Inspect	X			Exciter Rotor	Inspect	X				
	Test	X				Test	X				
Generator Rotor Assembly	Inspect	X			Generator Rotor Assembly	Inspect	X				
	Test	X				Test	X				
	Remove	X				Remove	X				
	Install	X				Install	X				
Generator Main Stator and Housing	Inspect	X			Generator Main Stator and Housing	Inspect	X				
	Test	X				Test	X				
	Replace	X				Replace	X				
Engine Assembly (11)	Inspect	X			Engine Assembly (11)	Inspect	X				
	Remove	X				Remove	X				
	Install	X				Install	X				
	Repair	X				Repair	X				
Skid Base (12)	Inspect	X			Skid Base (12)	Inspect	X				
	Remove	X				Remove	X				
	Repair	X				Repair	X				
	Install	X				Install	X				

MAINTENANCE ALLOCATION CHART (AS IS)								MTAP RECOMMENDATION			
				TAMCN:				TAMCN:			
				Model: MEP-805B				B0963			
				TM 092/9B/2815-24/3 Maintenance Procedures				MEP-805B			
				General and Direct Support				TM 092/9B/2815-24/3 Maintenance Procedures			
MAINTENANCE LEVEL								General Remarks			
Unit				Direct		General		Depot		D	
C O F H				1 2		3 4		5			
No.	Group/System	EOM	Function					No.	Group/System	Function:	Level of Maintenance
00	Engine Assembly							00	Engine Assembly	O I D	Recommend "Removal/Install"
Note: (X) The designation the lowest level of maintenance authorized to conduct a maintenance function on the component assembly, or sub-assembly.											
Note: (R/I) "Remove and Install"											
Note: (I) "Engine Rebuild": The Intermediate Maintenance Activity does not have the capability on the battlefield to perform expeditious repairs due to facility and structure, environmental constraint, and test equipment for engine re-build.											
01 Cooling System (Refer to TM 092/9B/09246B-4/1)								01 Cooling System (Refer to TM 092/9B/09246B-4/1)			
0101 Thermostat and Water Manifold Thermostat Cover								Inspect X			
0101 Thermostat and Water Manifold Thermostat Cover								Replace R/I			
0102 Water Pump								Inspect X			
0102 Water Pump								Replace R/I			
0102 Water Pump								Replace X			

MAINTENANCE ALLOCATION CHART (AS/S)						MTAP RECOMMENDATION					
						TAMCN: B053					
						Model: MEP-805B MEP-805B Maintenance Procedures					
General and Direct Support						TM 0929B/2815-243 Maintenance Procedures General and Direct Support					
MAINTENANCE LEVEL						Remarks					
Unit											
Direct											
C O F H D											
Function						Level of Maintenance					
No. Group/System						Function					
02 Electrical System						O I D					
0201 Battery Charging Alternator						Inspect					
Test						Test					
RJ						Replace					
Replace						Repair					
Repair						X					
0202 Starter						D-LM activity.					
Inspect						Inspect					
Test						Test					
RJ						Replace					
Replace						Repair					
Repair						X					
03 Intake and Exhaust System						Intake and Exhaust System					
0301 Turbocharger						Inspect					
Inspect						X					
Test						Test					
RJ						Replace					
Replace						X					
0302 Intake Manifold						0302 Intake Manifold					
Inspect						Inspect					
RJ						Replace					
Replace						Replace					
0303 Exhaust Manifold						0303 Exhaust Manifold					
Inspect						Inspect					
RJ						Replace					
Replace						Replace					

MAINTENANCE ALLOCATION CHART (AS IS)						MTAP RECOMMENDATION										
TAMCN: B9e3			Model: MEP-805B			TAMCN: B9e3		Model: MEP-805B								
Model: TM 09249B/2815-243 Maintenance Procedures			General and Direct Support			TM 09249B/2815-243 Maintenance Procedures		General and Direct Support								
<b>M A I N T E N A N C E   L E V E L</b>																
Unit      Direct      General      Depot																
EDM	C	O	F	H	D											
Function	1	2	3	4	5	No	Group/System	Level of Maintenance								
<b>04 Lubrication System</b>						<b>04 Lubrication System</b>		O	I							
0401 Oil Filter Assembly	Inspect	X	Replace	X		0401 Oil Filter Assembly	Inspect	X	D							
	R/						Replace	X								
0402 Oil Cooler	Inspect	X	Replace	X		0402 Oil Cooler	Inspect	X								
	R/						Replace	X								
0403 Oil Pressure Regulation Valve Assembly	Inspect	X	Replace	X		0403 Oil Pressure Regulation Valve Assembly	Inspect	X								
	R/						Replace	X								
0405 Oil Pump Assembly	Inspect	X	Replace	X		0405 Oil Pump Assembly	Inspect	X								
	R/						Replace	X								
0406 Oil Bypass Valve Assembly	Inspect	X	Replace	X		0406 Oil Bypass Valve Assembly	Inspect	X								
	R/						Replace	X								
0407 Oil Fill Tube	Inspect	X	Replace	X		0407 Oil Fill Tube	Inspect	X								
	R/						Replace	X								
0408 Oil Dipstick Tube	Inspect	X	Replace	X		0408 Oil Dipstick Tube	Inspect	X								
	R/						Replace	X								
0409 Oil Pan	Inspect	X	Replace	X		0409 Oil Pan	Inspect	X								
	R/						Replace	X								

MAINTENANCE ALLOCATION CHART (AS IS)						MTAP RECOMMENDATION																			
TAMCN:		B063				TAMCN:		B063																	
Model:		MEP-805B				Model:		MEP-805B																	
TM 09249B/2815-24/3 Maintenance Procedures						TM 09249B/2815-24/3 Maintenance Procedures																			
<b>General and Direct Support</b>																									
<b>MAINTENANCE LEVEL</b>																									
Unit		Direct	General	Depot		Level of Maintenance																			
C O		F	H	D		Function																			
EOM		1	2	3	4	O I D																			
Function						Level of Maintenance																			
05 Fuel System						Function																			
0501 Fuel Filter						O I D																			
0501 Fuel Filter		X				Function																			
Service		X				O I D																			
Repair		X				Function																			
Replace		X				O I D																			
0502 Fuel Transfer Supply Pump						Function																			
Inspect		X				O I D																			
Test		X				Function																			
Repair		X				O I D																			
Replace		X				Function																			
0503 Fuel Lines						Function																			
Inspect		X				O I D																			
Repair		X				Function																			
Replace		X				Function																			
0504 Fuel Injection Pump						Function																			
Inspect		X				O I D																			
Test		X				Function																			
Repair		X				O I D																			
Replace		X				Function																			
0505 Fuel Injection Nozzle Assembly						Function																			
Inspect		X				O I D																			
Test		X				Function																			
Repair		X				O I D																			
Replace		X				Function																			
<b>Remarks</b>																									
0501 Fuel Filter: Drain out water, no tools needed.																									
0502 Fuel Transfer Supply Pump: Pump must be removed before the inspection can be performed.																									
0503 Fuel Lines: Should be a visual inspection. Note: This will require a change to the TM as removal is not required.																									
0504 Fuel Injection Pump: Inspection is a visual PMCS. GS has the F&I capability for testing.																									
0505 Fuel Injection Nozzle Assembly: Inspection is a visual PMCS.																									

MAINTENANCE ALLOCATION CHART (AS IS)								MTAP RECOMMENDATION			
TAMCN:				TAMCN:				Model:			
B063				B063				MEP-805B			
MEP-805B				TM 0929B/2815-243 Maintenance Procedures				General and Direct Support			
MAINTENANCE LEVEL								Remarks			
Unit				Direct		General		Depot			
EDM				C	O	F	H	D	D		
Function				No.	Group/System	Function	No.	Group/System	Function	O	I
<b>06 Cylinder Head Assembly</b>								Level of Maintenance			
0601 Focker Arm Cover								06	Cylinder Head Assembly	O	D
0602 Brake and Exhaust Valves								0601	Focker Arm Cover	RJ	X
0603 Focker Arm Assembly								0602	Intake and Exhaust Valves	Replace	X
0604 Cylinder Head								0603	Focker Arm Assembly	Test	X
07 Flywheel and Housing Assembly								0604	Cylinder Head	Adjust	X
0701 Flywheel								0701	Flywheel	RJ	X
0702 Rear Crankshaft Oil Seal/Wear Sleeve Assembly								0702	Rear Crankshaft Oil Seal/Wear Sleeve Assembly	Replace	X
0703 Flywheel Housing								0703	Flywheel Housing	Inspect	X
08 Crankshaft Pulley								08	Crankshaft Pulley	Replace	X

MAINTENANCE ALLOCATION CHART (AS IS)						MTAP RECOMMENDATION			
TAMCN:			TAMCN:			Model:		Model:	
B0953			B0953			MEP-805B		MEP-805B	
Model: TM 09249B/2815-243 Maintenance Procedures			Model: TM 09249B/2815-243 Maintenance Procedures			General and Direct Support		General and Direct Support	
MAINTENANCE LEVEL						Remarks			
Unit	Direct	General	Depot			Level of Maintenance	Function	O	D
C	O	F	H				Replace	X	
O	1	2	3	4	5	No. Group/System	Inspect	X	
EOM						09 Timing Gear Cover	Remove	X	
Function	X						Install	X	
Replace	X								
Inspect	X								
Remove	X								
Install	X								
10 Short Block Assembly						Note: Engine Re-Build			
Camshaft Assembly						Inspect	X		
Inspect	X					Test	X		
Test	X					Build	X		
Replace	X					Replace	X		
Idle Gears and Idler Gear Shafts	X					Test	X		
Front Plate	X					Test	X		
Front Plate	RJ					RJ	X		
Crankshaft and Main Bearing	X					Inspect	X		
Inspect	X					RJ	X		
Test	X					Test	X		
RJ	X					RJ	X		
Repair	X					Repair	X		
Pistons and Connecting Rods	RJ	X				RJ	X		
Repair	X					Repair	X		
Cylinder Liner	X					Inspect	X		
Inspect	X					Test	X		
Test	RJ					RJ	X		
Repair	X					Repair	X		
Balancer Shaft Assembly	X					Inspect	X		
Inspect	X					Test	X		
Test	X					RJ	X		
Replace	X					Replace	X		
Cylinder Block	X					Repair	X		
Repair	X								

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

## **Generator Assembly, less engine component (00)**

Topic 1 Test

### **Discussion:**

The Load Bank System (B0579) is a necessary End Item to maintain at the Organizational "O" level. The test procedure performed ensures the generator can sustain a resistive load during normal operation. This procedure should be performed on a periodic basis.

### **Recommendation:**

The MTAP recommend Organizational units maintain Load Banks. The Operator is trained in the formal school to operate this equipment. This will save the Marine Corps time and man-hours at the intermediate ("I") maintenance level, and ultimately decrease their workload.

## **Panel Lights (0301)**

Topic 1 Repair

### **Discussion:**

Repairs consist of changing the light bulb and fixture.

### **Recommendation:**

The MTAP recommended migrating the repair task to the "O" level

## **Computer Interface Module (0305)**

Topic 1 Inspection

### **Discussion:**

The inspection procedures for the Computer Interface Module (CIM) indicate a "visual" inspection only.

### **Recommendation:**

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages if present.

Topic 2 Technical manual changes

### **Discussion:**

Currently, the technical manuals (TM) do not identify the CIM testing and diagnostic/troubleshooting procedures that

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

list up-to-date corrective measures. The manufacturer provided the testing and diagnostic/troubleshooting procedures after initial fielding of the generator.

## Recommendation:

The MTAP recommend a revision in the technical manuals for CIM testing, troubleshooting/diagnostic procedures be implemented.

**Communication Port (0307)**  
**Paralleling Receptacle (0308)**  
**Convenience Receptacle (0309)**  
Topic 1 Inspect

## Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages if present.

## Recommendation:

The MTAP recommend the inspection task be migrated to the "O" level.

**DCS Load Sharing Synchronizer (0310)**  
**DCS Speed Control Unit (0311)**  
**Automatic Voltage Regulator (0312)**  
**Backplane Module (0313)**  
**I/O Interface Module (0314)**  
**DC Control Power Fuse (Circuit Breaker) (0315)**  
**Reactive Circuit Adjust Rheostat (0316)**  
**Diode (0317)**  
**Resistors (0318)**  
N/A

**Auxiliary Control Brackett (0319)**  
**Relays (0320)**  
N/A

**Digital Control Box Wiring Harness DCBWH (0321)**  
**CIM Wiring Harness (0322)**  
Topic: Inspect

## Discussion:

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

The "Incidental Operator" does not have the necessary skills, knowledge, and capabilities to perform the above task.

## Recommendations:

The MTAP made a consensus agreement to recommend migrating the inspect task to the "I" level maintenance.

Note: to DCBWH (0321), Recommend a provision change to the technical manual because there are no basic instructions.

## **Digital Control Panel Frame and Panels (0323)**

N/A

## **DCS Data Plates (0324)**

N/A

## **Keypad Power Supply (0325)**

N/A

## Air Intake and Exhaust System (04)

### **Muffler and Exhaust Pipe (0401)**

N/A

### **Air Cleaner Assembly (0402)**

Topic 1 Inspect/Replace

## Discussion:

Removal of the Air Cleaner Assembly is required before an inspection can be performed. This is an "I" level task not required by the "Incidental Operator".

## Recommendation:

The MTAP recommend migrating the "Inspect" and "Replace" task to the "I" level.

## **Crankcase Breather Filter Assembly (0403)**

N/A

## Engine Cooling System (05)

### **Radiator (0502)**

Topic 1 Repair

## Discussion:

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

The radiator is made of aluminum and beyond the "I" level of maintenance capabilities.

## Recommendation:

The MTAP recommend the "Repair" task be migrated to Depot level maintenance.

## **Fan Guards (0503)**

Topic 1 Remove/Install

## Discussion:

With the required General Mechanics Tool Kit the removal and installation of the fan guards can be performed.

## Recommendation:

The MTAP recommend migrating the two tasks to "I" level Maintenance.

## **Fan (0504)**

## **Coolant Recovery System (0506)**

N/A

## **Fuel System (06)**

### **Low Pressure Fuel Lines and Fittings (0601)**

N/A

### **Auxiliary Fuel Pump (0602)**

### **Fuel Drain Valve (0604)**

### **Fuel Tank Filler Neck (0603)**

Topic 1 Inspect

## Discussion:

The "Incidental Operator" is trained to perform a PMCS "visual check", and capable of identifying damages.

## Recommendation:

The MTAP recommend the inspection task be migrated to the "O" level.

### **Fuel Level Sender (0605)**

### **Fuel Pickup (0606)**

N/A

### **Either Cylinder Assembly (0607)**

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

Topic 1 Inspect

Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

Recommendation:

The MTAP recommend the inspection task be migrated to the "O" level.

**Either Solenoid Valve (0608)**

Topic 1 Inspect

Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

Recommendation:

The MTAP recommend the inspection task be migrated to the "O" level.

**Fuel Tank (0609)**

Topic 1 Inspect/Service

Discussion:

The fuel tank must be removed before the "Inspection/Service" can be performed. This is an "I" level task.

Recommendation:

The MTAP recommend migrating the tasks "Inspect and Service" to the "I" level.

**Fuel Filter/Water Separator (0610)**

**Either Solenoid Relay (0611)**

N/A

**Output Box Assembly (07)**

**Voltage Reconnection Terminal Board VRTB (0701)**

Topic 1 Remove/Install

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

## Discussion:

The "Incidental Operator" is trained to change the voltage reconnection board from Low-Wye to High-Wye for a higher voltage requirement. However, do not recommend any other maintenance at the Organizational level.

## Recommendation:

The MTAP recommend migrating the "Remove/Install" task to the "I" level.

## **Output Box Wiring Harness (0702)**

Topic 1 Test/Repair

## Discussion:

Testing and repairing the Output Box Wiring Harness is an "I" level task. The "Incidental Operator" does not have the training to perform this task.

## Recommendation:

The MTAP recommended migrating "Test/Repair" task to the "I" level maintenance.

## **Transformers (0703)**

Topic 1 Test

## Discussion:

The "Incidental Operator" is not trained to read a multi-meter to determine voltage and various other electrical system checks.

## Recommendation:

The MTAP recommend migrating the "Test" task to the "I" level.

## **AC Circuit Interrupting Relay (0704)**

## **Cranking Relay (0705)**

Topic 1 Inspect

## Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

## Recommendation:

The MTAP recommend the "Inspection" task be migrated to the "O" level.

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

**Output Box Panels (0706)**

N/A

**Load Output Terminal Board TB2 (0707)**

Topic 1 Inspect

Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

Recommendation:

The MTAP recommend the "Inspection" task be migrated to the "O" level.

## **Engine Accessories (08)**

**Senders (0801)**

**Magnetic Pickup MPU (0802)**

**Dead Crank Switch (0803)**

N/A

**Battery Current Transducer (0804)**

**Electric Actuator (0805)**

Topic 1 Inspect

Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages if present.

Recommendation:

The MTAP recommend the "Inspection" task be migrated to the "O" level.

## **Lubrication System (09)**

**Oil Drain Valve (0901)**

Topic 1 Inspect

Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

Recommendation:

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

The MTAP recommend the "Inspection" task be migrated to the "O" level.

## **Generator Assembly (10)**

Topic 1 Repair

### Discussion:

The Marine Corps has experienced defective Voltage Regulators Control (VRC) Kits in the MEP 806A generators. The results of this problem has caused the alternating generator, stator and excitation package to become defective. The Maintenance Center at MCLB, Albany have accepted these generators in the maintenance system for rebuild, and evacuated the alternating generators to an industrial commercial contractor for rebuild. PM MEP, ARMY recommended a modification kit be developed and installed to prevent further damages to the generator system.

### Recommendation:

The MTAP made a consensus agreement to recommend a "Repair" function be added for Depot level repairs.

## **End bell and main bearing (1001)**

Topic 1 Remove/Install

### Discussion:

The "Diodes" in the rectifier will be destroyed if the voltage regulator fails caused by an over voltage and related current increase. The 4<sup>th</sup> EOM WIPT recommended the management of SECREP be held at the Depot level.

### Recommendation:

The MTAP recommended migrating the "Remove/Install" task to the Depot level.

## **Rotating Rectifier (1002)**

Topic 1 Repair

### Discussion:

Why was the "Repair" function left out of this maintenance process?

### Recommendation:

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

The diodes in the rectifier can become defective when the voltage regulator fails - causing an increase in current (serge). The MTAP made a consensus agreement and recommended the "Repair" function be added to the "I" level maintenance.

**Exciter Stator (1003)**  
**Exciter Rotor (1004)**

**Generator Rotor Assembly (1005)**  
**Generator Main Stator and Housing (1006)**  
Topic 1 Inspect

Discussion:

The rotor and main generator is beyond the "Incidental Operator" scope of maintenance.

Recommendation:

The MTAP recommended migrating the "Inspection" task to the "I" level of maintenance.

**Engine Assembly (11)**

Topic 1 Repairs

Discussion:

The "Repairs" maintenance task should be added as a Depot level task.

Recommendation:

Include the "Repair" task as an integral part of the maintenance process for engine repairs. Designate the "Repair" task at the Depot based on the 4<sup>th</sup> EOM WIPT Depot Migration.

**Skid Base (12)**

Topic 1 Remove/Install

Discussion:

If a skid base is severely damaged it should be removed, installed, or re-built at the depot level to ensure it is performed in accordance to the specifications.

Recommendation:

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

Add the "Remove/Install" maintenance functions to the depot level. However, some repairs can be performed at the IMA level i.e., welding.

## **DIESEL ENGINE MODEL 4045TF151 4 CYLINDER, 4.5 LITER**

### **Engine Assembly 30KW (00)**

Recommend the "Remove/Install" (R/I) be removed from Organizational level of maintenance. The Organizational level does not have the tools, equipment, or personnel to perform the "Removal/Install" tasks. However, inspection of the engine assembly is conducted at all three levels of maintenance. All "Service" requirements at the Organizational level will remain the same. Recommend the "Rebuild" maintenance task be added to the Depot of level maintenance.

### **Cooling System (01)**

#### **Thermostat and Water Manifold Cover (0101)**

Topic 1 Remove/Install/Replace

#### Discussion:

The "Incidental Operator" does not have the necessary training to perform the above task.

#### Recommendation:

The MTAP recommend migrating the "Remove/Install/Replace" task to the "I" level of maintenance.

### **Water Pump (0102)**

N/A

### **Electrical System (02)**

#### **Battery Charging Alternator (0201)**

Starter (0202)

Topic 1 Repair

#### Discussion:

The "Repairs" maintenance task should be added as a Depot level task.

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

## Recommendation:

The MTAP recommend migrating the "Repair" task to the Depot level per the 4<sup>th</sup> EOM WIPT Depot Migration.

## Intake and Exhaust System (03)

Turbocharger (0301)

Intake Manifold (0302)

Exhaust Manifold (0303)

Topic 1 Inspect

## Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

## Recommendation:

The MTAP recommend the "Inspection" task be migrated to the "O" level.

## Lubrication System (04)

Oil Filter Assembly (0401)

Oil Cooler (0402)

Oil Pressure Regulating Valve Assembly (0403)

Oil Pump (0405)

Oil Bypass Valve Assembly (0406)

Topic 1 Inspect/Remove/Install/Replace

## Discussion:

The entire engine must be removed before the above task can be accomplished.

## Recommendation:

The MTAP recommend migrating the all functions to the Depot level of maintenance based upon the 4<sup>th</sup> EOM WIPT, Depot Migration. MTAP is in full compliance with the current ROM definition for Depot level maintenance.

Oil Fill Tube (0407)

Oil Dipstick Tube (0408)

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

**Oil Pan (0409)**  
Topic 1 Inspection

Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

Recommendation:

The MTAP recommend the "Inspection" task be migrated to the "O" level.

**Fuel System (05)**

**Fuel Filter (0501)**  
Topic 1 Service

Discussion:

Drain out water is the only requirement.

Recommendation:

The MTAP recommend the "Service" task be migrated to the "O" level.

**Fuel Transfer Supply Pump (0502)**  
N/A

**Fuel lines (0503)**  
Topic 1 Inspection

Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

Recommendation:

The MTAP recommend the "Inspection" task be migrated to the "O" level.

**Fuel Injection Pump (0504)**  
Topic 1 Inspection/Repair

Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages. The Repairable Issue Point (RIP) determines if repairs should be conducted at the Depot level.

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

## Recommendation:

The MTAP made a consensus agreement to recommend migrating the "Repair" task to the Depot, and the "Inspection" task to the "O" level.

### **Fuel Injection Nozzle Assembly (0505)**

Topic 1 Inspection

## Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

## Recommendation:

The MTAP recommend the "Inspection" task be migrated to the "O" level.

### **Cylinder Head Assembly (06)**

#### **Rocker Arm Cover (0601)**

#### **Intake and Exhaust Valves (0602)**

N/A

#### **Rocker Arm Assembly (0603)**

#### **Cylinder Head (0604)**

Topic 1 Repair

## Discussion:

The Repairable Issue Point (RIP) makes the determination if repairs are at the Depot level.

## Recommendation:

The MTAP recommended migrating the "Repair" task to the Depot level of maintenance based on the 4<sup>th</sup> EOM WIPT. MTAP is in full compliance with the current ROM definition for Depot level maintenance.

### **Flywheel and Housing Assembly (07)**

#### **Flywheel (0701)**

#### **Rear Crankshaft Oil Seal/Wear Sleeve Assembly (0702)**

N/A

#### **Flywheel Housing (0703)**

Topic 1 Inspection

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

## Discussion:

The "Incidental Operator" is trained to perform a PMCS visual check, and capable of identifying damages.

## Recommendation:

The MTAP recommend the "Inspection" task be migrated to the "O" level. Note: Recommend changes to the technical manual to reflect, "Removal not required for inspection". Recommend a "Visual" inspection only.

## Crankshaft Pulley (08)

N/A

## Timing Gear Cover (09)

### Short Block Assembly (10)

Camshaft Assembly (1001)

Idler Gears and Idler Gear Shaft (1002)

Front Plate (1003)

Crankshaft and Main Bearings (1004)

Pistons and Connecting Rods (1005)

Cylinder Liner (1006)

Balancer Shaft (1007)

Cylinder Block (1008)

Topic 1 Inspect/Test/Remove/Install/Replace/Repair

## Discussion:

The MTAP made special note of the "Engine Re-build" for the Short Block Assembly. The ROM 4<sup>th</sup> EOM WIPT set policy for management of SECREP components at the Depot.

## Recommendation:

The MTAP recommend migrating the above functions/tasks to the Depot level of maintenance based upon the 4<sup>th</sup> EOM WIPT, Depot Migration. The MTAP is in full compliance with the current ROM definition for Depot level maintenance.

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

The following notes are specific SMR Code "Call-outs" to the Engine Fuel System. The item number identifies the call-outs.

## **Fuel Lines and Fittings**

Item No. 31 & 32 - Recommend not removing at the organizational level because removal can cause damage and cannot be repaired.

## **Fuel Lines**

Item No. 11 & 12 - The technical manual (TM) need correcting to reflect an accurate illustration call-out. In the TM item No. 11 & 12 need to be corrected to reflect Item No. 11 as Item No. 12, and Item No. 12 as Item No. 11.

Provision a change to the TM item No. 3-15; should be changed to reflect a "Circuit Breaker".

## **Preventive Maintenance Checks and Services (PMCS) for Organizational Level Maintenance**

After further review of the Direct Support technical manual, the MTAP distinguished the difference between the "Inspection" function relative to both the "O" and I" level tasks. The "Inspection" task specific to the "O" level of maintenance requires a PMCS inspection that is based solely on a "visual" check for cracks, dents, leaks, damaged and missing components or parts. The "Inspection" task specific to the "I" level of maintenance requires removal of a component or part before an inspection can be performed. Consequently, the MTAP made recommendations to migrate tasks with regards to the "Inspection" procedures in the technical manual.

Pre-Expended Bins (PEB) must be instituted at the Organizational level to support PMCS functions required by the table of maintenance, i.e., hourly, quarterly, semi-annual, preventive maintenance checks. Funding must be allocated for the supply parts to maintain a PEB.

# **MTAP MEP 805B RECOMMENDATIONS FOR MIGRATING MAINTENANCE FUNCTIONS AND TASKS**

The following notes are specific SMR Code "Call-outs" to the Generator Set. The item number identifies the call-outs.

Item No. (1)

Most of the current SMR codes are under Marine Corps Order.

Item No. (2)

Recommend the Control Box (group 3, fig 5) be replaced at the intermediate level.

Item No. (3)

The wiring harness (group 3, fig 5) comes completely assembled; no maintenance level change is needed.

Item No. (5) thru (12) (group 6, fig 11)

There is no special tool or skill needed for this task. Therefore, this task can be performed at the organizational level.

Item No. (13) thru (24) (group 7, fig 14)

These tasks are organizational service parts.

Item No. (31) Reference Group No. 11, Fig. 24, Item No. 12

The engine can be removed at the IMA level.

**ROM MTAP MEP-805B**  
**T2T/ITS ANALYSIS**

<b>MTAP SMR CODE RECOMMENDATIONS</b>							
<b>TAMCN: B0953 MEP-805B 30KW 60Hz</b>							
<b>Generator Set, Skid Mounted, Tactical Quiet - PCN: 18209249200, TM 09249B/09246B-24P/2</b>							
Item No.	Group No.	Fig. No.	Description	Item No.	Current SMR Code	Recommended SMR Code	NSN/Part No.
1	1	2	washer, flat	11	pafzz	paozz	5301-01-396-5840
2	3	5	control box	6	pbooo	pbfff	6110-01-466-4072
3	3	5	cable assembly, special	49	paozz	pafzz	96-23683
4	3	5	wiring harness, branch	75	paozz	pafzz	5995-01-470-4269
5	6	11	tee, pipe	53	pafzz	paozz	4730-01-470-6199
6	6	11	elbow, pipe to hose	54	pafzz	paozz	4730-00-041-2526
7	6	11	plate, metal	55	xbfzz	xbozz	96-23570
8	6	11	adaptor, straight, pi	56	pafzz	paozz	4730-00-200-0531
9	6	11	washer flat	58	pafzz	paozz	5310-00-044-6477
10	6	11	washer, flat, spring	59	pafzz	paozz	5310-01-469-9865
11	6	11	hexagon nut	60	pafzz	paozz	5310-01-470-1286
12	6	11	machine bolt	62	pafzz	paozz	5306-00-226-4827
13	7	14	electromagnetic, relay	19	pafzz	paozz	5M5008
14	7	14	contactor, magnetic	28	pafzz	paozz	6110-01-367-8921
15	7	14	screw, assembly, washer	20	pafzz	paozz	5305-00-191-6226
16	7	14	nut, plain, clinch	17	pafzz	paozz	5310-00-903-8595
17	7	14	semi-conductor device	24	pafzz	paozz	5961-01-470-4673
18	7	14	transformer, discrim	35	pafzz	paozz	5950-01-470-2938
19	7	14	washer, flat	39	pafzz	paozz	5310-00-809-4058
20	7	14	cover, distribution	44	pafzz	paozz	6110-01-372-2597
21	7	14	nut , plain, castellant	45	pafzz	paozz	5310-01-470-1981
22	7	14	washer, flat	42	pafzz	paozz	5310-01-469-9864
23	7	14	post, electrical	43	xbfzz	xbozz	72-2098-2
24	7	14	cover, electrical, co	48	pafzz	paozz	5935-01-470-6221
25	707	17	resistor, voltage, se	26	paozz	pafzz	5905-01-063-9644
26	707	17	filter assembly, ele	22	paozz	pafzz	5915-01-396-9253
28	8	19	elbow, pipe	28	pafzz	paozz	4730-01-470-6338
29	8	19	coupling, pipe	29	pafzz	paozz	4730-00-415-3172
30	8	19	actuator, electro-me	30	pafzz	paozz	2910-01-470-1941
31	11	24	engine, diesel	12	pbohh	pbffh	2815-01-462-2289

**MTAP SMR CODE RECOMMENDATIONS**
**TAMCN: B0953 MEP-805B 30KW 60Hz**
**Engine, Diesel - PCN: 18209249300, TM 09249B/2815-24/P4**

<b>Item No.</b>	<b>Group No.</b>	<b>Fig No.</b>	<b>Description</b>	<b>Item No.</b>	<b>Current SMR Code</b>	<b>Recommended SMRC Code</b>
1	102	3	gasket	1	paozz	pafzz
2	102	3	pump, coolant system, water	2	paozz	pafzz
3	102	3	pulley, water pump	3	xbozz	xbfzz
4	102	3	bolt, machine	4	paozz	pafzz
5	102	3	bolt, machine	5	paozz	pafzz
6	102	3	elbow, tube	6	xbozz	xbfzz
7	102	3	o-ring	7	paozz	pafzz
8	102	3	bolt, machine	8	paozz	pafzz
9	102	3	bolt, machine	9	paozz	pafzz
10	3	6	pulley	1	xbozz	xbfzz
11	3	6	bolt, machine	2	paozz	pafzz
12	3	6	spacer, straight	3	paozz	pafzz
13	3	6	pulley	4	paozz	pafzz
14	3	6	sleeve	5	paozz	pafzz
15	3	6	bolt, machine	6	paozz	pafzz
16	3	6	bolt, machine	8	paozz	pafzz
17	3	6	bearing, housing	9	paozz	pafzz
18	402	11	housing, oil cooler	1	xbozz	xbfzz
19	402	11	o-ring	2	paozz	pafzz
20	402	11	gasket, housing	3	paozz	pafzz
21	402	11	cooler, lubrication	4	paozz	pafzz
22	402	11	bolt, socket	5	paozz	pafzz
23	402	11	gasket	6	paozz	pafzz
24	402	11	o-ring	7	paozz	pafzz
25	402	11	tube, connector	8	xbozz	xbfzz
26	402	11	adapter	9	xbozz	xbfzz
27	402	11	bolt, machine	10	paozz	pafzz
28	402	11	screw, flanged	11	paozz	pafzz
29	404	13	o-ring	3	pafzz	paozz
30	404	13	plug	4	xbfzz	xbozz
31	501	18	line,fuel	3	xbozz	xbfzz
32	501	18	tube, metallic	9	xbozz	xbfzz
33	503	20	hose, metallic	1	paozz	pafzz
34	503	20	clamp, loop	2	paozz	pafzz
35	503	20	screw, cap, hexagon, H	3	paozz	pafzz
36	503	20	hose, metallic, leak-off	4	paozz	pafzz
37	503	20	nut, plain, hezagon	5	paozz	pafzz
38	503	20	hose, metallic, fuel injector 4	7	paozz	pafzz
39	503	20	hose, metallic, fuel injector 3	8	paozz	pafzz
40	503	20	hose, metallic, fuel injector 2	9	paozz	pafzz
41	503	20	hose, metallic, fuel injector 1	10	paozz	pafzz
42	503	20	screw, cap, hexagon H	12	paozz	pafzz
43	503	20	adaptor, straight	13	paozz	pafzz
44	503	20	o-ring	14	paozz	pafzz
45	503	20	elbow, pipe to tube	15	paozz	pafzz
46	1107	37	o-ring	10	pafzz	pahzz

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**NSN/Part No.**

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5330-01-790-2677

2930-01-470-4157

RE500737

5306-01-330-0426

5306-01-470-5111

RE501453

5331-01-409-1634

5306-01-470-1375

5306-01-470-2422

R128658

5306-01-470-6013

5365-01-470-1948

RE51281

3120-01-470-3574

5306-01-470-5118

19M7835

RE500539

R123471

5330-01-470-5524

5330-01-470-5183

2930-01-470-6284

5306-01-470-6008

5330-01-470-5475

5330-01-470-5500

R5115252

R1135177

5306-01-326-4911

5305-01-470-1335

5331-01-470-2668

R107770

RE60037

RE60025

4720-01-470-0447

5340-01-235-3309

19M6614

4710-01-470-0678

4730-01-471-1512

4720-01-470-0320

4720-01-470-0345

4720-01-470-0339

4720-01-470-0339

5430-01-383-8775

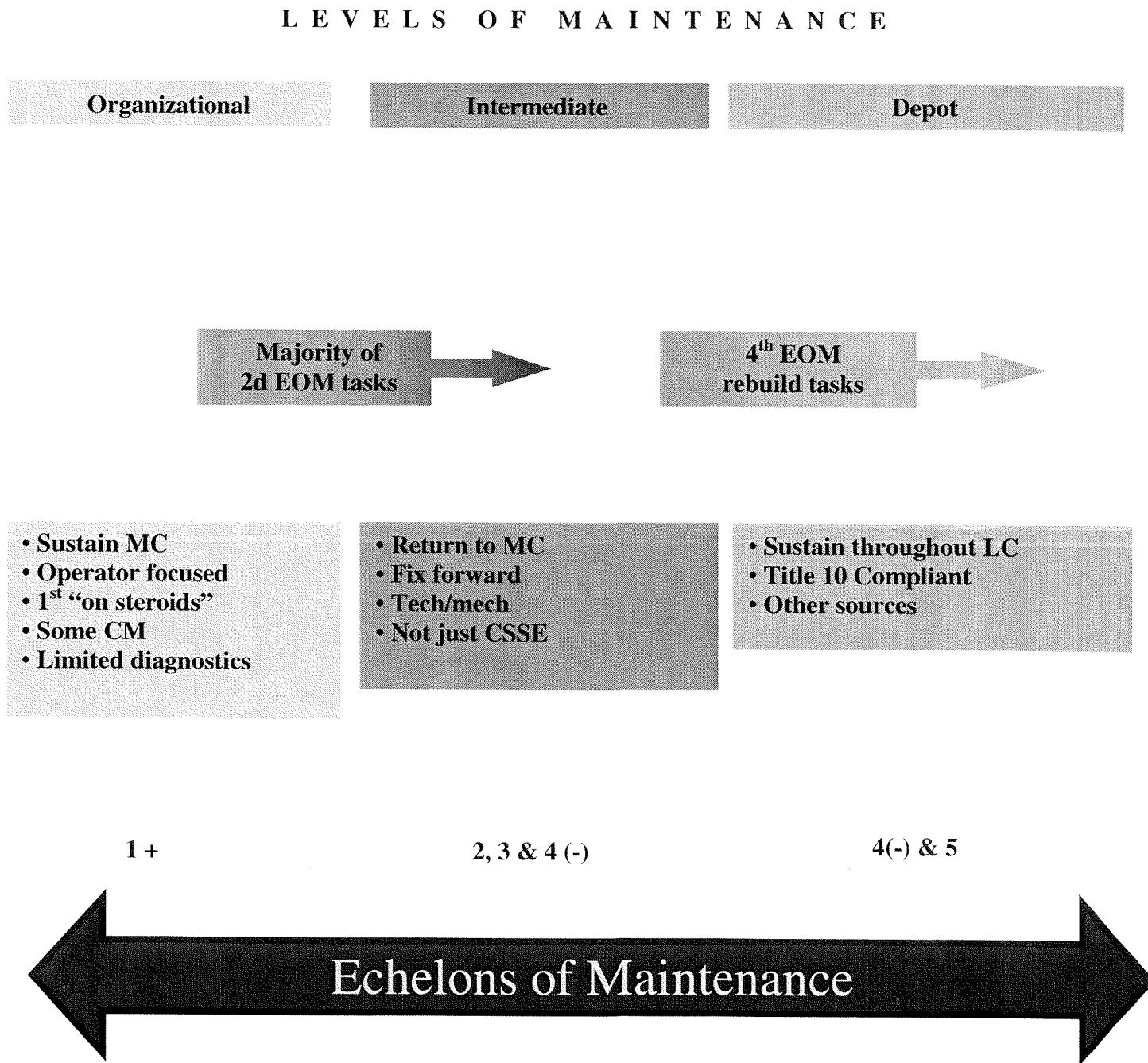
19M6614

5365-01-470-1612

4730-01-318-3677

5330-01-307-9411

# Realignment of Maintenance Matrix



Enclosure 7

Generator Operator's Tool Set:  
12" Adjustable Wrench  
8" Adjustable Wrench  
8" Adjustable Joint Pliers  
6 ¾" Regular Pliers  
6" Long Nose Pliers  
6" Diagonal Pliers  
(4) Flat Head Screwdrivers  
(4) Cross-Tip Screwdrivers  
(Example - Sears# 00941432000 Craftsman 8pc Screwdriver Set)  
Small tool bag