MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE

Maintenance Management Order POSTAL SERVICETM

SUBJECT: Powered Industrial Vehicle Management System (PIVMS) Preventive Maintenance (PM) Guidelines DATE: July 2, 2015

NO: MMO-096-15

FILE CODE: O

mlot:mm14161ac

TO: All PIVMS Offices All Area Offices

This Maintenance Management Order (MMO) provides Preventive Maintenance Guidelines for the Powered Industrial Vehicle Management System (PIVMS). This Maintenance Management Order (MMO) supersedes MMO-104-09. This bulletin applies to Acronym PIVMS, Class Code AA.

The workhours represented in this MMO reflect the maximum workhours required to maintain the equipment. Given local conditions, management may modify task frequencies.

The minimum maintenance skill level required to perform each task is included in the Minimum Skill Level column of each checklist. This does not preclude higher level employees from performing any of this work.

Maintenance Managers are to use these preventive maintenance guidelines when preparing the route sheets for local maintenance personnel. It is the responsibility of each Maintenance Manager to ensure all WARNINGS, CAUTIONS, and NOTES are included with each applicable task as part of the preparation of any local route sheets.

WARNING

Various products requiring Material Safety Data Sheets (MSDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current MSDS for each product used is on file and available to all employees. When reordering such a product, it is suggested that current MSDS be requested. Refer to MSDS for appropriate personal protective equipment.

WARNING

The use of compressed or blown air is prohibited. An alternative cleaning method such as a HEPA filtered vacuum cleaner, a damp rag, lint-free cloth, or brush must be used in place of compressed or blown air.

WARNING

Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO for appropriate EWP PPE and barricade requirements.

Direct any questions or comments concerning this bulletin to the MTSC HelpDesk, online at **MTSC>HELPDESK>Create/Update Tickets** or call (800) 366-4123.

Andy L. Henderson Manager (A) Maintenance Technical Support Center HQ Maintenance Operations

Attachments 1. Summary of Workload Estimate

- 2. Master Checklist 03-PIVMS-AA-001-M Weekly PM
- 3. Master Checklist 03-PIVMS-AA-002-M Monthly PM
- 4. Master Checklist 03-PIVMS-AA-003-M Quarterly PM

SUMMARY

WORKLOAD ESTIMATE

FOR PIVMS SYSTEM

PM Checklist Time Summary

Operation 7 Day/Week	Routine Servicing (Hrs/Yr)	Routine Servicing + Repair Time (Hrs/Yr)	Non- productive Time** (Hrs/Yr)	# of Vehicle Asset Communicators (VACs)	Total Servicing Per Device (Hrs/Yr)
Weekly	18.20	5.46	2.37	N/A	26.03
Monthly per VAC	6.60	1.98	0.86		9.44 x (# of VACs)
Quarterly per VAC	2.07	0.62	0.27		2.96 x (# of VACs)

NOTES

*Repair estimates based on 30% of servicing.

**Based on 10% of routine servicing and repair.

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WEEKLY MASTER CHECKLIST

03-PIVMS-AA-001-M

Time Total: 21 minutes

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Equipment Nomenclature PIVMS	Equ	ipmeı	nt Mo	del				В			name 161ac		NUMBER 0 0 1 Occurrence Weekly	y		

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	S
Compensiti			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.

SAFETY STATEMENT	1	COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shutdown and lockout this machine. Open equipment and inspect dust conditions. Check for suspicious dust or unusual debris. If any unusual substance is found notify supervisor prior to proceeding with any further action on the equipment. THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED. When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner or a damp rag must be used in place of compressed or blown air. A lint-free cloth or brush may be used on optical equipment only when other cleaning methods cannot be used. Report safety deficiencies to your supervisor immediately upon detection. WARNING FOR EWP/PPE: Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO for appropriate EWP PPE and barricade requirements.	1	All		
System	2	Check subsystems communications status.	20	10		
Communications		Check Gateway/WAM, Beacon, and VAC communications.				
		 From ACE workstation Remote Desktop into PIVMS server and login Vision software. 				
		a. Select Data Reporting and Analysis menu button.				
		b. Select Data Reports.				
		c. Select PIVMS Baseline folder.				
		2. Select and view 209 Quick Beacon Verification report.				
		a. The date and time in "Last Configured" should be within the last 24 hours.				

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Equipment Nomenclature PIVMS	Equ	ipmer	nt Mo	del				B	Bulletir M		name 161ac		Occuri		eekly	/

Part or	Item	Task Statement ar (Comply with all current		Est.	Min. Skill		Threshold	5
Component	No		salety precautions)	Time Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		b. Create 05 work orde	ers for discrepancies.					
		Select and view 210 Qu Verification report.	uick Gateway-WAM					
		a. The date and time ir Sync" should be with	n "Last Completed hin the last 24 hours.					
		b. Create 05 work orde	ers for discrepancies.					
		Select and view 211 Que Verification report.	uick Vehicle					
		a. The date and time ir should be within the vehicle is in operation	last one hour if the					
		b. In Service Yes/No is current vehicle statu						
		c. All vehicles are not i Bypassed.	n Soft or Hard					
		d. Create 05 work orde	ers for discrepancies.					
		Select and view report Usage Sensor Detail re						
		a. For like vehicles, va comparable.	lues should be					
		b. Create 05 work orde	ers for discrepancies.					
		Select and view report Detail report.	214 Vehicle Impact					
		a. Look for Severity oth (Moderate, Medium,	ner than Low Severe, or unknown).					
		 Play back the event location of the event vehicle/facility. 	in Visibility to find the and inspect					
		c. Create 05 work orde discrepancies.	ers for all					
		Select and view Vehicl Snapshot report in the						
		a. Review In Service, S Impact Enabled and Detect						
		b. Create 05 work orde	ers for discrepancies.					

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Equipment Nomenclature	Equipment Model Bulletin Filenar								ename Occurrence								

Equipment Nomenclature PIVMS Equipment Model

Part or Component	ltem No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	s
Component	110		Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.

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Weekly

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MONTHLY MASTER CHECKLIST

03-PIVMS-AA-002-M

Time Total: 33 minutes per VAC

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Maintenance Checklist	WC CO	DRK DE					MEN NYM					ASS DE	N	UMB	ER	TYPE
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Part or Component	ltem No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	S
Component			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.

SAFETY STATEMENT	1	COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shutdown and lockout this machine. Open equipment and inspect dust conditions. Check for suspicious dust or unusual debris. If any unusual substance is found notify supervisor prior to proceeding with any further action on the equipment.	1	All		
		THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED. When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner or a damp rag must be used in place of compressed or blown air. A lint- free cloth or brush may be used on optical equipment only when other cleaning methods cannot be used. Report safety deficiencies to your supervisor immediately upon detection. WARNING FOR EWP/PPE: Steps contained in this bulletin may require the use of Personal Protective Equipment (PPE). Refer to the current Electrical Work Plan (EWP) MMO for appropriate PPE requirements.				
Vehicle Sensors	2	Check vehicle sensor, wiring and calibration	32	9		
		1. For each vehicle				
		 Check wire harness physical condition to each sensor, VAC, and power connections 				
		 b. Check impact sensor for secure mounting to vehicle 				
		2. Calibrate impact sensor				
		a. Refer to the USPS VAC Users Guide for calibration procedures.				
		 Calibrate speed sensor Refer to the USPS VAC Users Guide for calibration procedures. 				

QUARTERLY MASTER CHECKLIST

03-PIVMS-AA-003-M

Time Total: 31 minutes per VAC

MMO-096-15

Maintenance Technical Support Center

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	-	WORK EQUIPMENT CLASS NUM CODE ACRONYM CODE										UMBE	MBER TYPE			
	0 3 P I V M S A A 0 0 3										3	М				
Equipment Nomenclature PIVMS	Equipment Model									Bulletin Filename Occurrence mm14161ac Qua						

ſ	Part or Component	ltem No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	s		
				Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.		

SAFETY STATEMENT	1	COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shutdown and lockout this machine. Open equipment and inspect dust conditions. Check for suspicious dust or unusual debris. If any unusual substance is found notify supervisor prior to proceeding with any further action on the equipment. THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED. When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner or a damp rag must be used in place of compressed or blown air. A lint-free cloth or brush may be used on optical equipment only when other cleaning methods cannot be used. Report safety deficiencies to your supervisor immediately upon detection. WARNING FOR EWP/PPE: Steps contained in this bulletin may require the use of Personal Protective Equipment (PPE). Refer to the current Electrical Work Plan (EWP) MMO for appropriate PPE requirements.	1	All		
Lift and Tow sensors	2	Calibrate Lift and Tow sensors. 1. Calibrate Lift Sensor	30	9		
		 a. Refer to the USPS VAC Users Guide for calibration procedures. 2. Calibrate Tow sensor. 				
		a. Refer to the USPS VAC Users Guide for calibration procedures.				