MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE

UNITED STATES POSTAL SERVICETM

Maintenance Management Order

SUBJECT: Network Distribution Center (NDC)

DATE: December 14, 2012

Operational and Preventive Maintenance Guidelines for Parcel Sorter (Carousel)

NO: MMO-147-12

TO: Manager Maintenance, All NDCs FILE CODE: Y8

mcol:mm12048ad

		Online Change Record
Change #	Date	Description of Change
2	2/17/2021	Attachment 2, Item 11, Added new step 9 to replace latch pins or hardware. Attachment 2, Item 25 Added new step 5 to replace cover on encoder module.
1	9/29/2014	Convert frequency numerical values to alphabetical values as per MMO-019-14

This Maintenance Management Order (MMO) provides Network Distribution Center (NDC) Operational and Preventive Maintenance Guidelines for the Parcel Sorter (Carousel). This MMO supersedes MMO-031-98. The acronym is PSM. The class code is CA.

The workhours indicated in the workload estimate (Attachment 1) are based on a 20-hour operations window and reflect the maximum annual workhours required to maintain each system. Actual workhour requirements and the frequency of tasks are dependent on run time and pieces processed. Therefore, PM workhour requirements will vary day-to-day based on site specific machine utilization. Management may modify task frequencies to address local conditions.

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.

Preventive Maintenance (PM) guidelines provide maintenance employees with the recommended task based maintenance activities. The Electronic Conditioned Based Maintenance (eCBM) is an abbreviated task list that represents a portion of the PM checklist. The complete master PM checklist must be accessible to all maintenance employees when performing PM and eCBM task based maintenance activities.

Web Access: http://mtsc.usps.gov

WARNING

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.

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.

For questions or comments concerning this bulletin contact the MTSC HelpDesk, either online at MTSC>HELPDESK>Create/Update Tickets or call (800) 366-4123.

Robert E. Albert

Manager

Maintenance Technical Support Center

HQ Maintenance Operations

- Attachments 1. Summary Workload Estimate for PSM
 - 2. Master Checklist: 03-PSM-CA-001-M: PM
 - 3. Master Checklist: 09-PSM-CA-001-M: Operational Maintenance

ATTACHMENT 1

SUMMARY
WORKLOAD ESTIMATE
FOR PSM

SUMMARY WORKLOAD ESTIMATE FOR PSM

NOTE

Since this equipment contains multiple units of unknown quantity, the workload estimate can not be provided in a traditional roll-up table. For this guideline, the annual work hours are derived from local site specific entries made in an electronic Work Hour Estimator Program (eWHEP) worksheet. Refer to eWHEP for further guidance.

ATTACHMENT 2

PSM MASTER CHECKLIST

03-PSM-CA-001-M

Time Total: 384.66 minutes

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SAFETY STATEMENT:	Disconn required local loc down an equipme for susp unusual prior to the equi THE USE PROHIB When cle cleaning vacuum place of cloth or equipme cannot b your sup WARNIN Steps co use of P Refer to MMO for WARNIN Discard local pro combust NOTE: P are inclue recomme Detector of rotatin shafts an addition t tasks Re	by this is kout productions discoused in the current and in the current appropriate in the current app	ALL SAFETY er and apply instruction. ocedures to ut this mac nspect dust ust or unus ice is found ing with any MPRESSED s required, a such as a or a damp r ssed or blor ay be used when other Report safe immediately EWP/PPE: in this bulk Protective E ent Electric riate PPE re soaked mat s to prevent maintenance on this PM gu because is to predict in this ph gu because is to prevent and the prediction of the ph ellow speed re ellow speed	y lockor Refer to proper hine. O condit ual deb notify furthe O OR BL an alter HEPA fr ag mus on opti cleaning ty defic y upon etin ma equipm al Work equirem the proper the pro	uts visco culty sloves a consider	when urrent hut S. Check If any ervisor tion on IN AIR IS ve ed e used in at-free ethods cies to ection. quire the (PPE). In (EWP) S. Itrasonic ondition ers and pment) in or noise"	3	All			W

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	
			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
MAIL SEARCH:	2.	WARNING: Be cautious when working around or on equipment when power has been applied. CHECK FOR MAIL. Look for loose mail while performing these activities.	3	07			W
SYSTEM:	3.	WARNING: Be cautious when working around or on equipment when power has been applied. START EQUIPMENT. Start equipment and check warning indicators for proper operation.	3	07			W
DRIVE: REDUCER	4.	SORTER REDUCER STRAINER. Turn sorter reducer strainer handle one full turn in either direction to scrape strainer plates.	3*	07			W
DRIVE: REDUCER	5.	CHECK REDUCER OIL PRESSURE. Record the reducer oil pressure. If below 12 psi, report to supervisor immediately.	3*	07			W
DRIVE:	6.	 CHECK MOTOR AND GEAR HOUSING. Check motor and gear housing as follows: 1. Use the ultrasonic detector with stethoscope probe to check motor and gear housings to detect for excessive vibration and noise. 2. Use the noncontact infrared thermometer to check for excessive heat on the motor and reducer. 	6*	09			Q
DRIVE: BRAKE	7.	 CHECK BRAKE. Check brake as follows: Observe effectiveness of brake. Check braking action on motor. Listen for noisy brake operation. If applicable (pneumatic brake only). Check all airlines and brake parts for leaks. Check for proper air pressure (75-95 PSIG). 	8*	09			Q
DRIVE: COUPLING	8.	CHECK OUTPUT COUPLING. Check output coupling for any misalignment of shafts.	2*	09			Q
TRAY STRAIGHTENER:	9.	CHECK TRAY STRAIGHTENER. Check tray straightener as follows:	4	07			Q

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Compension	110	(comply that all carron called presadations)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		Observe carriages at the tray straightener for					
		 Observe carriages at the tray straightener for smooth operation and proper latching. 					
		Check that clearance between tray and straightener is 1/2".					
CARRIAGE:	10	CHECK CHAIN / CARRIAGE ASSEMBLIES.	0.12*	07			W
CHAIN		Check Chain/Carriage assemblies as follows:	0.12	0,			
		1. Look for proper chain lubrication (if applicable).					
		Cracked trays, missing bumpers, and damaged carriage wheels or centering wheel.					
		Look for mail or debris caught in chain or between carriages.					
CARRIAGE:		CHECK CARRIAGE ASSEMBLY. Check carriage assembly as follows:	3*	07			Q
		Remove latch pins or hardware and lower removable track (maintenance access panel).					
		2. Examine trays for cracks and rough edges.					
		Clean all dirt and build-up from carriage assembly and wheels. Jog as necessary.					
		 Examine all carriage wheels and centering wheel for wear and damage. Verify retaining rings are installed and not damaged. 					
		Tilt tray and examine index lever and index lever pin for wear or damage.					
		6. Examine front and rear carriage pins for wear, damage, and verify pins are fully engaged.					
		7. Examine carriage for cracks, warpage, scarring, gouges, and missing mail catchers.					
		Check for damaged or missing bumpers and verify compression spring is in place.					
		Replace latch pins or hardware and lower removable track (maintenance access panel).					
CARRIAGE: CHAIN		CHECK CHAIN. Observe chain (one complete revolution at slow speed) around one sprocket for indications of frozen or worn rollers, missing chain fasteners, and cracked or broken links.	0.04*	07			Q
DRIVE: UNICO:	13.	CHECK UNICO DRIVE CABINET. Check cabinet	4*	09			Q

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Part or Ite	em	Task Statement and Instruction	Est.	Min.		Threshold	s
	lo	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	1 104.
	ļ	as follows:					
		Clean or replace filter as needed.					
		·					
		•					
		3. Review fault mask.					
SYSTEM: 1		WARNING FOR EWP/PPE: Steps contained in this bulletin may require the	3	07			W
		use of Personal Protective Equipment (PPE). Refer to the current Electrical Work Plan (EWP) MMO for appropriate PPE requirements.					
		POWER DOWN AND LOCK OUT POWER. Power down the machine and lock out its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures.					
OILER: 1		CHECK OILER OIL LEVEL. Check automatic oiler level. Add if required (OL-3) (if applicable).	5	07			W
WIPER: 1 DRAIN PAN	-	CHECK WIPER AND DRIP PAN. Check chain oil wipers and oil drip pan as follows (if applicable):	15	07			М
		WARNING: Discard solvent soaked materials according to local procedures to prevent spontaneous combustion.					
		Check chain oil wipers.					
		2. Drain and clean oil drip pan.					
CARRIAGE: 1 CHAIN		CHECK CHAIN TENSION. Check the sorter chain tension. Tension chain as necessary.	60	09			Q
DRIVE: 1 REDUCER		CLEAN REDUCER OIL STRAINER. Disassemble reducer oil strainer, clean and reassemble.	15*	09			М
DRIVE: 1 REDUCER		CHECK AND CLEAN MOTOR AND REDUCER HOUSINGS. Clean the motor and reducer housings to ensure that they are free from dirt accumulation.	30*	07			S
DRIVE: 2 REDUCER		LUBRICATE REDUCER . Take oil sample for test. Check oil level and fill as needed. (Lubricant GL-5- EP.)	15*	07			A
DRIVE: 2 COUPLING		LUBRICATE OUTPUT COUPLING. Lubricate output coupling with GR-2-EP lubricant.	5*	07			Α
DRIVE: 2 COUPLING	2.	WRENCH TEST OUTPUT COUPLING BOLTS.	5*	07			Α

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Part or	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	S
Component	INO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		Wrench test mounting bolts on output coupling.					
DRIVE: REDUCER	23.	CLEAN AND LUBRICATE DRIVE SHAFT BEARING. Clean and lubricate drive shaft bearing as follows: WARNING: Discard solvent soaked materials according to local procedures to prevent spontaneous	6*	07			A
		 Wipe clean and lubricate the drive shaft bearing with (GR-2-EP) lubricant. Lube until fresh lubricant appears at relief vent. Clean off excess lubricant from bearing. 					
DRIVE: SPROCKET	24.	CHECK AND CLEAN SPROCKET TEETH. Check and clean sprocket teeth as follows: 1. Check sprocket teeth for wear. 2. Remove build-up of foreign material. 3. Check sprocket teeth mounting bolts. 4. Tighten, if required, SAE-8 bolts and lock nuts to 15 ft/lb. torque.	30*	07			S
ENCODER:	25.	 CHECK ENCODER MODULE. Check sorter encoder module as follows: Remove cover on encoder module; check for damage to belt. Examine top and bottom covers for wear, scuffs, gouging, strapping, cracking swells, or ply separation. Check for build-up of foreign material on top and bottom belt surfaces. Check motor encoder. Replace cover on encoder module 	10	07			A
ENCODER:	26.	CLEAN AND LUBRICATE BEARING. Clean and lubricate bearing as follows: WARNING: Discard solvent soaked materials according to	4	07			Q

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Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		ocal procedures to prevent spontaneous combustion.					
		 Wipe clean and lubricate bearing on the encoder module drive shaft, located on top of the main drive sprocket. 	of				
		2. Clean excess lubricant from bearing.					
DISCHARGE: TRIPPER		CLEAN AND CHECK TRIPPER ASSEMBLY. Clean and check tripper assembly as follows:	4*	09			Q
ASSEMBLY:		 Remove foreign material from tripper assembly, power cables, solenoids, and air hoses. 					
		Examine air hose connectors and look for damaged air hoses.					
	;	3. Listen for air leaks.					
	4	 Look for damage to electrical cable, solenoic valves, and connector. 	d				
		5. Examine trippers for proper tipping position.					
		Wrench test all mounting bolts. Check for excess wear.					
	-	 Examine bumpers for wear or damage. Rota tripper roller for ease of rotation and wear or damage. 					
		3. Look for damaged or worn linkage.					
	Ģ	Check pivot points for ease of operation and cylinder mounting hardware.	I				
TRACK		CHECK TRACK SECTIONS. Check track section as follows:	ons 20	09			Q
		l. Look for cracks or damage.					
		2. Look for missing rub strips.					
		 Look for uneven carriage travel through sections. 					
		 Inspect expansion joint for damage and uneven travel. 					
		Inspect entrance and exit slip joints for damage.					
STRUCTURE:	29.	CHECK CONDUIT AND WIRING. Check condu	it 10	07			S

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Part or	Item		Task Statement and Instruction	-)	Est.	Min.		Threshold	s
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		and wiring	g as follows:					<u> </u>	1
		Check between switch	k for damage to conduit and wiri een control panel and motor pan- nes, photocells, and other contro ciated with this group panel.	els, limit					
		2. Look steps	for conduit being used for handh	old or					
ACCESS DOOR: MAINTENANCE			ND CHECK LIMIT SWITCH. CI it switch as follows:	ean and	3	07			Q
			ove dust from housing and trippe enance access door track switch						
		2. Look	for damaged or worn linkage.						
		3. Chec	k pivot points for ease of operati	on.					
		4. Wren tightn	ch test switch mounting bolts for ess.						
		5. Look	for damage to conduit and wirinຸ	g.					
STRUCTURE:	31.	CHECK S	STRUCTURE. Check structure a	s follows:	40	07			S
		memb betwe	for damage to supporting and stoers of equipment, misalignment sections, and loosecting bolts.	at joints					
			and feel for loose anchor bolts, I and tie rods.	nanger					
		3. Look	for cracked or broken welds.						
		4. If com wear	nposite track, check for broken o strip.	r missing					
CENTERING DEVICE:		device for arm locati	ING DEVICE. Check parcel cent mounting and loose hardware. ons for proper clearance over tra of parcels.	Check	10	07			Q
STATIC DEVICE:		_	STATIC DISCHARGE DEVICE. and contact of static discharge of	_	5	07			Q
TRAY STABILIZER:		stabilizati	TRAY STABILIZER . Check tray on bar through induction areas for damage and wear strip 1/2"	or	15	07			Q
TRAY	35.	CHECK T	RAY STRAIGHTENER. Check	tray	15	07			Q

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	S
Component	NO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
STRAIGHTENER:		straightener bar for mounting, damage and wear strip - 1/2" clearance.					
SYSTEM:		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. WARNING: Be cautious when working around or on equipment when power has been applied.	3	All			W
		RESTORE EQUIPMENT TO SERVICE. Restore equipment to service as prescribed by the current local procedure providing lockout/restore procedures.					
START UP:		START UP. Perform normal start-up procedures as follows: 1. Start or preset equipment. 2. Check for proper operation.	5	All			W
SENSOR: TRACKING (DVS, IVS, LVS)		RUN FMPCS MAINTENANCE SENSOR TESTS. Check tracking sensor alignment, run test for each sorter tracking sensor (observe test results on message log). Verify condition of tray stabilizer and wear strip for tray load sensors.	5*	10			Q
DISCHARGE:		RUN FMPCS MAINTENANCE DISCHARGE TESTS. Run discharge unit test for each discharge (observe each discharge unit tipping tray).	0.5*	10			Q
DISCHARGE: CHUTE		 TEST CHUTE SENSORS. Verify operation of chute sensor and reporting circuits: For chutes that only have one sensor (these sensors are located near the top of each chute). Block the sensor and check to see if the chute full light illuminates. While the sensor is blocked check the FMPCS condition report or message log to see that it indicates the chute is full. Check the FMPCS Cimplicity screen to see if 	1*	10			Q

U.S. Postal Service

Maintenance Technical Support Center

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		block	ed senso	or is sh	own o	on the scre	een.					
							he second the chute).					
		FMP		ition re	port o		the e log to see					
			Check the FMPCS Cimplicity screen to see if ocked sensor is shown on the screen.									
		light		es (if th	is is a		ute full r loader the					
			n to inhib			aders that arge unit (I						
		chute cond	e full light ition repo	illumir ort or m	nates iessa	check to s and that th ge log to s hibit is act	ne FMPCS see that it					
			he corre			licity screes s shown c						
CLEAN UP:	41.		ved from	the wo	ork ar	ea. Repor	rags, etc., t all	3	All			W

^{* ---} the tasks marked with an asterisk are per unit tasks.

^{** ---} the tasks marked with two asterisks are critical tasks.

ATTACHMENT 3

PSM MASTER CHECKLIST

09-PSM-CA-001-M

Operational Maintenance

Time Total: 57 minutes

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Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill 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 shut down and lock out 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. WARNING: Be cautious when working around		All			Т
FMPCS REPORTS:	2.	GENERATE AND REVIEW REPORTS. Analyze data provided on the following reports to determine if any areas of the machine are degrading or need attention. Reports can be selected through the FMPCS menu system or requested at the command line. Reports are to be generated for current tour. 1. Review volume report (Look for high number occurrences of Induction failure, Mis-sent (Induction Unit problem, Discharge problem or failure,)) 2. Review condition report (Look for not operational, out of service, failing or down equipment)	15	10			T

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J		(23.14)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		Review maintenance report					
		(Look for any high number occurrences of problems or failures)					
		4. Review current message log					
SENSOR:	3.	RUN FMPCS MAINTENANCE SENSOR TESTS.	5*	10			Т
TRACKING (DVS, IVS, LVS)		Run sensor test for each sorter tracking sensor (observe test results on message log). The location of mail on the trays or tray state must be known to determine correct test results.					
DISCHARGE:		RUN FMPCS MAINTENANCE DISCHARGE TESTS.	10	10			Т
		Run discharge unit test for any discharge showing a high failure rate in the maintenance report (observe discharge unit tipping tray).					
PSOC:	5.	OBSERVE CAMERA.	2	10			Т
(PARCEL SORTER OVERHEAD CAMERA)		Look at the PSOC computer monitor and verify that it is: Ready, Connected to FMPCS and displaying read rate and bar code results.					
INDUCTION:	6.	CHECK INDUCTION UNIT.	2*	09			Т
		Observe condition of the induction unit (belting, edge guards, controls, lighting).					
INDUCTION:	7.	CHECK SHAKER TABLE.	1*	09			Т
SHAKER TABLE		Observe shaker table operation (if applicable) (noisy stroke, banging)					
INDUCTION:	8.	CHECK INDUCTION.	1*	09			Т
		Observe induction of mail piece onto the sorter, ensure mail piece is hitting the correct tray (ALPA enabled and working correctly for mail piece not centered on belt).					
INDUCTION: SCANNER		CHECK SCANNER. Verify scanners ability to read bar code.	1*	09			Т
INDUCTION: PRINTER		CHECK PRINTER. Observe application of label and printed label quality.	1*	09			Т
DRIVE: CHAIN		CHECK CHAIN. Check chain tension by observing chain slack coming off the driving sprocket (bull wheel). Check chain lubrication (if applicable).	1*	09			Т

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Part or	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	S
Component	INO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
DRIVE: REDUCER		CHECK DRIVE. Reducer, drive gear and coupling (look for oil leaks, grease seals, listen for bearing or gear noise).	1*	07			Т
CARRIAGE: CHAIN		CHECK CARRIAGES. Observe sorter carriages for broken trays, latching plates or missing/damaged mail catchers (beaver tails) between carriages or missing wheels.	10	07			T
TRAY STRAIGHTENER:		CHECK TRAY STRAIGHTENERS. Verify tray straighteners are functional and wear strip is in good condition.	2	07			Т
TRAY STABILIZER:		CHECK TRAY STABILIZERS. Verify tray stabilizers are functional and wear strip is in good condition.	2	07			Т
REPORT:		REPORT DEFICIENCIES . Report all deficiencies to your supervisor.	3	All			Т