MAINTENANCE TECHNICAL SUPPORT CENTER **HEADQUARTERS MAINTENANCE OPERATIONS**





Maintenance Management Order

SUBJECT: Small Parcel Sortation System (SPSS) **DATE:** August 2, 2017

Operational and Preventive Maintenance

NO: MMO-115-17

TO: All SPSS Sites FILE CODE: R1A, R1B

rfer:mm15120ax

		Online Change Record												
Change #	Date	Description of Change												
1	1 11/27/18 * the tasks marked with an asterisk are per unit tasks.													
		** the tasks marked with two asterisks are critical tasks.												

This Maintenance Management Order (MMO) provides Operational and Preventive Maintenance Guidelines for the Small Parcel Sorting System (SPSS). This bulletin applies to Acronym SPSS, Class Codes AA and BA.

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

Web Access: http://www1.mtsc.usps.gov

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.

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

Kevin Couch Manager

Maintenance Technical Support Center

HQ Maintenance Operations

- Attachments 1. Summary of Workload Estimate
 - 2. Master Checklist 03-SPSS-AA-001-M Pilot PM
 - 3. Master Checklist 09-SPSS-AA-002-M Pilot Operational Maintenance
 - 4. Master Checklist 03-SPSS-BA-003-M PM
 - 5. Master Checklist 09-SPSS-BA-004-M Operational Maintenance

ATTACHMENT 1

SUMMARY

WORKLOAD ESTIMATE

FOR

SPSS SYSTEM

Attachment 1 i

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ii Attachment 1

SUMMARY WORKLOAD ESTIMATE FOR SPSS CLASS CODES AA AND BA

SPSS_AA

SPSS_AA

Operation	Routine Servicing (Hrs/Yr)	Repair* (Hrs/Yr)	Routine Servicing + Repair Time	Non- productive Time**	Total Servicing Per Machine	Operational	Maintenand Servicing	e + Total
	(1115/11)		(Hrs/Yr)	(Hrs/Yr)	(Hrs/Yr)	1 Tour (Hrs/Yr)	2 Tours (Hrs/Yr)	3 Tours (Hrs/Yr)
5	859.28	257.78	1,117.06	111.71	1,228.77	1,384.77	1,540.77	1,696.77
6	955.48	286.64	1,242.12	124.21	1,366.33	1,553.53	1,740.73	1,927.93
7	1,051.68	315.5	1,367.18	136.72	1,503.90	1,722.30	1,940.70	2,159.10

SPSS_BA

SPSS BA

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Operation	Routine Servicing (Hrs/Yr)	Repair* (Hrs/Yr)	Routine Servicing + Repair Time	Non- productive Time**	Total Servicing Per Machine	Operational	Maintenand Servicing	e + Total
	(1115/11)		(Hrs/Yr)	(Hrs/Yr)	(Hrs/Yr)	1 Tour (Hrs/Yr)	2 Tours (Hrs/Yr)	3 Tours (Hrs/Yr)
5	851.86	255.56	1,107.42	110.74 1,218.16		1,374.16	1,530.16	1,686.16
6	948.06	284.42	1,232.48	123.25	1,355.73	1,542.93	1,730.13	1,917.33
7	1,044.26	313.28	1,357.54	135.75	1,493.29	1,711.69	1,930.09	2,148.49

NOTES:

- *Repair estimates based on 30% of servicing.
- **Based on 10% of total servicing and repair.

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ATTACHMENT 2

SPSS MASTER CHECKLIST

03-SPSS-AA-001-M

PILOT SYSTEM

CLASS CODE = AA

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Maintenance Checklist	CODE ACRONY								CODE							
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Equipment Nomenclature	Equipment Model							Bulletin Filename				(Occurr	ence		
Small Parcel Sortation System			Pilot System					mm15120								

				•			-
Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	3
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
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	1				ı		
SAFETY	1.	WARNING: COMPLY WITH ALL SAFETY	1	ALL			D
STATEMENT		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. 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.					
		WARNING: 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.					
		WARNING: Various products requiring Safety					
		Data Sheets (SDS) may be utilized during the					
		performance of the procedures in this					
		bulletin. Ensure the current SDS for each					
		product used is on file and available to all					
		employees. When reordering such a product,					
		it is suggested that current SDS be requested.					
		Refer to SDS for appropriate personal					
		protective equipment.					
SPSS	2.**	Power Down And Lock Out Power.	5	ALL			D
0.00			9				
		NOTE: Soft-reboot of the computers in the OVIS					
		RACK is not needed when complying with the					
		current Maintenance Management Order (MMO)					
		providing lockout/restore procedures.					
		providing lookoutrootoro procedures.					
		Power down the machine and lock out its power					
		as prescribed by the current local lockout					
		instructions providing lockout/restore procedures.					
	l	linational browning lockonfrestore brocedures.					

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Small Parcel Sortation System			Pilo	ot Sy	/ster	n		mm15120								

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Reference MTSC SPSS page, PM Source Documentation, SPSS Start Up/Shut Down Folder, Maintenance Training Lesson 5.					
FMPCS	3.**	Shut Down and Restart FMPCS Program	10	10			D
		 On the FMPCS Site Utilities Screen [0] Main Menu, press S to shut down the FMPCS Program. 					
		When the "FMPCS is down" message is displayed press Enter to continue.					
		 On the FMPCS Site Utilities Screen [0] Main Menu, press R to restart the FMPCS program. 					
ALL PURPOSE	4.**	Perform Mail Search.	15	07			D
CONTAINER UNLOADER (APCU)		Check the area between the APCU and the incline conveyor for mail.					
,		2. Check all guards are in place.					
		Return all mail found during mail search to the proper mail path.					
ALL PURPOSE	5.	Entry Photo Eyes.	10	07			W
CONTAINER UNLOADER (APCU)		Clean entry photoeyes and reflectors on the APCU.					
,		Generate a work order to address any deficiencies.					
ALL PURPOSE	6.	Check Hydraulic Lines.	25	09			W
CONTAINER UNLOADER (APCU)		Check the condition of all hydraulic cylinder hoses and fittings for leaks.					
()		Check condition of the hydraulic reservoir unit hoses and fittings. Check for leaks. Look for damage caused by foot traffic, falling parcels, or abrasion by moving parts which could cause a future leak to occur.					
		Generate a work order to address any deficiencies.					
ALL PURPOSE	7.**	Check For Signs Of Wear.	25	09			М
CONTAINER UNLOADER (APCU)		Check the main pivot pins and bushings for signs of wear.					
, ,		Check cylinder clevis pins and bushings for signs of wear.					

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Small Parcel Sortation System			Pilot System mm15120												

Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	s
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
ALL PURPOSE CONTAINER UNLOADER (APCU)	8.**	 Check Unloader frame for damage or loose floor anchors. Check for cracks and metal fatigue at pivot points and near welds. Verify clevis pin retaining hardware is in place and secure. Check for damaged or missing container stops. Generate a work order to address any deficiencies. Reference MTSC SPSS page, PM Source Documentation, Southworth APCU Folder, APCU Operating and Maintenance Manual. Check Hydraulic Fluid. WARNING: Discard or dispose of chemical soaked materials according to SDS and in accordance with local procedures. Check the hydraulic fluid level using sight glass while the unloader is in the lowered position. Check fluid for evidence of water contamination (cloudy), discoloration from overheating, unusual odor, and/or excessive particulates (examine sample on blotter). Check reservoir for clogged breather/fill cap. Clean or replace as necessary. Add fluid as necessary. Use CITGO AW 32 Hydraulic Oil. Reference MTSC SPSS page, PM Source Documentation, Southworth APCU Folder, APCU Operating and Maintenance Manual. 	15	09			M
ALL PURPOSE CONTAINER UNLOADER	9.	Change Hydraulic Fluid. WARNING: Discard or dispose of chemical soaked materials according to SDS and in	300	07			S
(APCU)		 Change hydraulic fluid and filter. Remove old hydraulic fluid and replace using 15 gallons of CITGO AW 32 Hydraulic Oil. Replace oil filter element, PSN: 3920-10-000-1090. 					

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Run	Threshold Pieces	s Freq.
Component	140	(Somply with all outlone surety productions)	Req	Lev	Hours	Fed	r req.
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		Reference MTSC SPSS page, PM Source					
		Documentation, Southworth APCU Folder, APCU					
		Operating and Maintenance Manual.					
INCLINE	10. **	Perform Mail Search.	10	07			D
CONVEYOR		Check for mailpieces at the top and around the bottom of the conveyor.					
		Return all mail found during mail search to the proper mail path.					
INCLINE	11. **	Belts, Sprockets, Wear Strips, and Rollers.	300	09			Q
CONVEYOR		NOTE : Perform the following tasks after removing the hinge rods and opening the Bulk Handling conveyor belts.					
		 Vacuum and clean drive sprockets at the head end and the idler wheels on the lower end of conveyor. 					
		Check drive sprockets and idler wheels for wear.					
		Sprockets should be in contact with the shaft where teeth engage the belt.					
		 Replace sprockets or wheels when a gap of more than 2 mm develops between any sprocket and wheel on the related shaft. 					
		Check that the Bulk Handling conveyor cogs are engaging with the belt sections.					
		 Check wear strips for signs of cracks and deteriorating conditions. 					
		Check under side of belts for signs of damage.					
		Check that all Bulk Handling line rollers are clean and spinning freely.					
		Reference MTSC SPSS page, PM Source Documentation, Incline Conveyor Folder, SH Maintenance Training Lesson 8A, Bulk Handling Conveyor.					
INCLINE	12.	Bulk Handling Conveyor.	25	09			S
CONVEYOR		Measure the Bulk Handling Line conveyor belt section to section for pitch elongation.					

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Run	Threshold: Pieces	Freq.
Component	140	(Comply with all current safety precautions)	Req	Lev	Hours	Fiedes	rieq.
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		Generate a work order to address any					
		deficiencies.					
		Reference MTSC SPSS page, PM Source					
		Documentation, Intralox Conveyors Folder,					
		Instruction Handbook Modular Plastic Belt					
		Equipment Handbook v1.0, Section 5.2.1.1 for instructions.					
INCLINE	13.	Control Photoeyes.	25	07			W
CONVEYOR		Clean the three (3) (Head End, Call, and Full)					
		control photoeyes and reflectors controlling the					
		Bulk Handling line conveyor with lint free cloth.					
		Reference MTSC SPSS page, PM Source					
		Documentation, Incline Conveyor Folder, SH					
		Maintenance Training Lesson 8A, Bulk Handling					
		Conveyor.					
INCLINE	14.	Static Roller Conveyor.	25	07			М
CONVEYOR		Vacuum the Static Roller Conveyor using a					
		soft brush attachment.					
		Check the conveyor for damage or missing					
		rollers.					
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INDUCTION	15. **	Perform Mail Search.	10	07			D
PLATFORM		Check for mailpieces around the induction					
		line conveyors and platform.					
		2. Return all mail found during mail search to					
		the proper mail path.					
INDUCTION	16. **	Kore Sensors and Dimensioner.	10	07			D
CONVEYOR	10.		10	0,			
		Clean Kore Sensors with lint free cloth.					
		2. Clean Dimensioner light curtains and Kore					
		strip LEDs using a lint free cloth or microfiber					
		glove.					
		Reference MTSC SPSS page, PM Source					
		Documentation, Interoll Conveyors Folder, SH					
		Maintenance Training Lesson 8B.					
INDUCTION	17.	Transition Plates.	15	07			W
		Clean the Induction Line to Sorter transition					
		plates with a general purpose cleaner and					
		cloth.					
		Check the transition plates for damage.					

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			(min)			(000)	
	1	0. Observed a la la disca 7 a con la consecución					
		3. Clean the Induction Zone Jam Sensor					
		emitter and receiver (located on Induction					
		line 1 and Induction line 4 or 5) with a lint free cloth or microfiber glove.					
		nee cloth of microfiber glove.					
		4. Generate a work order to address any					
		deficiencies.					
SORTER	18. **	Perform Mail Search.	20	07			D
		1 Check the group for mail in beneath and					
		 Check the areas for mail in, beneath, and around all discharge chutes. 					
		Check for mail in the maintenance alley of					
		sorter.					
		3. Check the areas around Turns 1 & 2.					
		4. Check the area near and around the Tray					
		Closing Device.					
		5. Return all mail found during mail search to					
		the proper mail path.					
SORTER	19. **	Article Between Trays (ABT), Product Stuck in	15	07			W
		Tray (PST) Arrays.					
		Clean the Article Between Tray and Product					
		Stuck in Tray photoeye emitters and receivers for					
		each of the ABT/PST arrays, (3 totals) with a lint					
		free cloth or microfiber glove.					
SORTER	20. **	Hanging Braduet Photograp and Poffactors	4	07			W
SURTER	20.	Hanging Product Photoeyes and Reflectors.	4	07			VV
		Clean both Hanging Product Photoeyes and					
		Reflectors, located near Turn 1 and Turn 2 with a					
		lint free cloth or microfiber glove.					
SORTER	21.	Chute Jam Sensors.	10	07			W
		Clean the 2 Chute Jam Photoeye emitters and 2					
		Chute Jam Photoeye receivers located on both					
		sides of the sorter, with a lint free cloth or					
		microfiber glove.					
SORTER	22. **	Split Trays.	60	09			М
		 Check the tray bumpers are present and properly seated. 					
		2. Check the tray shock absorber is securely					
		mounted and the shock absorber shaft is					
		straight and is not leaking oil.					
		3. Check the shock absorber impact block is					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		securely mounted.					
		Check the tray spring support rod is securely mounted, and the tray spring is present.					
		Generate a work order to address any deficiencies.					
SORTER	23.	Anti-Static Brushes.	1	09			W
		Check the anti-static brushes for damage.					
		The brushes should be intact and remain in contact with the side of the split tray carrier.					
		Generate a work order to address any deficiencies.					
		Reference the MTSC SPSS page, PM Source Documentation, SPSS Sorter Folder, SH Maintenance Training Lesson 8D.					
SORTER	24. **	Tray Closing Device.	5	09			W
		Check Tray Closing Brushes for damage.					
		Measure brush length; minimum brush length is 15 mm. Replace brush as needed.					
		Actuate both closing brushes to check for proper operation.					
		Check both gas spring mounting blocks are secured to the retractable arms.					
		 Check both closing device hinges for signs of wear. Check that hinges are properly secured to the retractable arms. 					
		Generate a work order to address any deficiencies.					
		Reference the MTSC SPSS page, PM Source Documentation, SPSS Sorter Folder, SH Maintenance Training Lesson 8D.					
SORTER	25. **	Tray Support Belts.	10	09			М
		Check induction support belts for fraying and signs of damage.					
		Check the belt guides for signs of damage. Remove any built up debris from belt guides.					
		3. Check the induction support drive motor and					

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Run	Thresholds Pieces	Freq.
Component	140	(Comply with all current salety precautions)	Req	Lev	Hours	Fed	гтец.
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		gearbox for signs of leaks.					
		4. Ensure the drive and idler pulleys are					
		secure.					
		 Check belt idle rollers are secure, free of debris, and spin freely. Check for flat spots on wheels. 					
		Generate a work order to address any deficiencies.					
		Reference the MTSC SPSS page, PM Source Documentation, SPSS Sorter Folder, SH Maintenance Training Lesson 8D.					
SORTER	26. **	Sorter Drive Motor(s) Hardware.	20	09			М
		Check overall drive motor assembly for loose or missing hardware.					
		Check power cable conduit for signs of damage and cracks, and conduit connection is secured and tight.					
		Generate a work order to address any deficiencies.					
SORTER	27.	Destination Chute Full Sensor.	1**	09			М
		Check destination chute full sensor is securely mounted to the mounting plate.					
		 Check sensor cable Quick disconnect connection is secured to sensor. 					
		 Clean the chute full sensor using a lint free cloth or microfiber glove. 					
		 Generate a work order to address any deficiencies. 					
		* Time per group of 4 destination chute groups.					
SORTER	28. **	Main Electrical Cabinet.	4	07			Q
		Clean the air filters in the Main Electrical Panel fan housings.					
		Replacement exhaust filter:					
		PSN: 5915-17-000-5325.					
		Reference the MTSC SPSS page, PM Source Documentation, SPSS Sorter Folder, SPSS-1493-Fan documentation.					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
SORTER	29.	Destination Chutes.	15	09			Q
		 Check the destination chute surfaces for any damage. Generate a work order to address any 					
		deficiencies.					
SORTER	30. **	Carrier Tray Track.	30	09			S
		Check the Sorter curve track sections in turn and turn 2 for indications of carrier tray wheel induced wear.					
		Clear the 2 debris slots in each turn 1 and turn 2.					
		Generate a work order to address any deficiencies.					
FMPCS	31.	FMPCS Computer Cabinet.	10	07			М
COMPUTER		Vacuum the FMPCS computer cabinet including the top of each device.					
		Clean the air filter on the FMPCS and Cimplicity computer chassis. Replace filter as necessary.					
PSOC	32. **	Clean Overhead Camera Clear Cover.	5	07			М
		CAUTION: The glass used in this system is fragile enough to break if pressure is applied.					
		NOTE: Do not spray the equipment. Only a misting of the cloth is required. Optionally, use a streak-free glass cleaner.					
		Using a lint-free cloth, gently wipe the underside of the clear cover over the camera lens and led array.					
		Use a spray bottle containing tap water to moisten cloth for wiping away stubborn smudges.					
ITEM DETECTION	33. **	Clean Item Detection Cameras.	10	07			Q
CAMERAS		Clean the Induction Verification Sensor using a lint free cloth.					
		Clean the Load Verification Sensor using a lint free cloth.					
OVIS RACK: RACK	34.	Replace Air Filters.	5	07			Q

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Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	2
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req	Lev	Hours	Fed	·
			(min)			(000)	
DOOR AIR FILTER		1. Replace two (2) air filters, (PSN 4130-15-					
BOOKANKTIETEK		000-7240). Use 18" x 30" x 1" filter with					
		MERV 8 rating.					
		Check the 12 exhaust fans on the rear of the OVIS cabinet to ensure fans are					
		running.					
		ŭ .					
	35. **	Restore Equipment To Service.	5	All			D
GENERAL		WARNING: Be cautious when working around					
		or on equipment when power has been applied.					
		Restore power to equipment as prescribed by the					
		current local procedures providing lockout/restore					
		procedures.					
		Reference MTSC SPSS page, PM Source					
		Documentation, SPSS Start Up - Shut Down					
		Folder, SH Maintenance Training Lesson 5 Start					
		Up.					
OPERATIONAL APCU	36. **	(Power on)	10	07			W
APCU		Check Unloader Entry Photoeyes for proper operation.					
		WARNING: Be cautious when working around					
		or on equipment when power has been					
		applied. Take precautions to prevent hair,					
		clothing, tools, and test equipment from being caught in moving parts.					
		Place the mode selection switch to Auto .					
		a. With the unloader in the fully lowered					
		position, push and hold the UP button					
		for up to 5 seconds to begin operation.					
		b. Check the amber stack light flash and					
		horn pulse for up to 5 seconds prior to					
		unloader movement.					
		During movement, block each unloader					
		entry photoeyes individually (3), and check					
		that the unloader stops.					
		Check that the Guard Reset amber pushbutton is illuminated.					
		·					
		b. Press the Guard Reset pushbutton to clear the fault.					
		c. Press the Up pushbutton to restart					

U.S. Postal Service								IDENTIF	ICAT	ION					
Materian and Object Park	WC	DRK			Е	QUIF	MENT			CLA	ASS	N	UMB	ĒR	TYPE
Maintenance Checklist	CC	DE				ACRO	MYM			CO	DE				
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Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bulletii	า Fileเ	name		Occurr	ence		
Small Parcel Sortation System	Pilot System							mm15120							

	1	- 10. ·				-	
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)					
Component	INU	(Comply with all current safety precautions)					Freq.
			(min)			(000)	
		cycle.			I		
		·					
		Lower unloader to the fully lowered position when completed.					
		 Note any deficiencies and report them to supervisor. 					
		Reference the MTSC SPSS page, PM Source Documentation, Southworth APCU Folder, APCU Operating and Maintenance Manual.					
OPERATIONAL	37. **	(Power On)	10	09			М
APCU		Unloader E-Stops.					
		WARNING: Be cautious when working around or on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts.					
		NOTE: The APCU Unloader E-Stop is local to the individual unloader and reports directly to the control panel.					
		1. Place the operational mode switch in Auto .					
		 With the unloader in the fully lowered position, push and hold the UP button for up to 5 seconds to begin operation. 					
		 a. Check the amber stack light flash and horn pulse for up to 5 seconds prior to unloader movement. 					
		 During the unloader movement, push the E-Stop pushbutton on the APCU Control Panel and check that the unloader stops. 					
		 Check the E-Stop Reset pushbutton lamp light comes on in the Emergency Stop switch and the E-Stop reset pushbutton light goes off. 					
		 Pull E-Stop switch out and press E-Stop Reset pushbutton. Check the E-Stop reset switch lamp comes on, and the Guard Reset pushbutton lamp comes on after approximately 5-10 seconds. 					
		6. Press the guard reset pushbutton to reset					

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Maintenance Checklist	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	UMBI	ĒR	TYPE
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Equipment Nomenclature	Equ	- - -		del				Bul	letin	Filer	name		Occur	rence		
Small Parcel Sortation System		1 2 5 5 5				n			m	nm1	5120					

Part or	Item	Task Statement and Instruction	omply with all current safety precautions) Time Req (min) Run Pieces Fed (000) Adder entry photoeyes. Is the Down button to return unloader to			S	
Component	No	(Comply with all current safety precautions)	Time Req	Skill	-	Fed	Freq.
Component		unloader entry photoeyes. 7. Press the Down button to return unloader to the fully lowered position. NOTE: The Remote Operator Terminal E-Stop pushbutton switch is not illuminated. 8. Repeat steps 1 thru 7 for the Remote Operator Terminal E-Stop pushbutton switch. 9. Note any deficiencies and report them to supervisor. (Power On) Check Unloader hydraulic unit operation on each Unloader (2 people recommended). WARNING: Be cautious when working around for on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts. WARNING: If the APCU pressure levels are near or in excess of 1750 PSI, the APCU must be removed from service immediately and repaired. 1. Visually check pump, reservoir, filter, and all connections for leaking fluid. 2. With Unloader empty, operate Unloader and look for the following: a. Verify smooth lift performance during operation.	Time Req (min)	Skill	Run	Pieces Fed	
		 c. Check floor mounting points and verify floor mounting bolts are secure. d. Visually check gauges for damage. e. Observe the hydraulic pressure gauge. 					

U.S. Postal Service								IDENTIF	ICAT	ION					
Materian and Object Park	WC	DRK			Е	QUIF	MENT			CLA	ASS	N	UMB	ĒR	TYPE
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Equipment Nomenclature	Equipment Model							Bulletii	า Fileเ	name		Occurr	ence		
Small Parcel Sortation System	Pilot System						r	nm1	5120						

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed	
	<u> </u>		(111111)			(000)	
		If pressure indicated does not fall within					
		ranges below, initiate corrective action.					
		NOTE: The typical empty APCU pressure reading ranges are as below:					
		*Stage one Tilt Up: 500 PSI to 750 PSI					
		*Stage two Dump Up: 700 PSI to 850 PSI					
		 *Stage three Dump Down: 950 PSI to 1350 PSI 					
		*Stage four Tilt Down: 1100 PSI to 1450 PSI					
		NOTE: The maximum operating pressure with rated capacity should be less than 1750 PSI. The system release pressure is pre-set at 1750 PSI by the manufacturer.					
		Note any deficiencies and report them to supervisor.					
OPERATIONAL	39. **	(Power On)	10	09			W
INCLINE CONVEYOR		Check Incline Conveyor Belts for proper tension and tracking.					
		On the incline conveyor, place the 3-way Selector Switch to the ON position. Observe the incline conveyor belt tracking.					
		Place the 3-way selector switch to the OFF position.					
		Check sidewalls for wear or excessive buildup of plastic dust which would indicate signs of improper tracking.					
		 Check the belt tension by observing belt sag, through the viewing slot in the lower section of the frame, on both sides of the frame. The belt sag should not be below the incline conveyor frame. 					
		Generate a work order to address any deficiencies.					
		Reference the MTSC SPSS page, PM Source Documentation, Intralox Conveyors, Modular Plastic Belt Equipment Instruction Handbook.					
OPERATIONAL INDUCT:	40.	(Power On)	20	09			W

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Equipment Nomenclature	Equ	ipmer	nt Mo	del				В	ulletin	Filer	name	(Occurr	ence		
Small Parcel Sortation System	Pilot System						n	nm1	5120							

Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
			(111111)			(000)	
INFEED - SCALE		Check Belt Tracking, Tension, and Speed.					
- TIMING-STRIP		NOTE: Conveyor belt speeds have a speed					
BELT CONVEYORS		variation of plus or minus (+/-) 2% of the nominal					
CONVETORS		belt speed.					
		 +/- 4.4 fpm on induction belts listed at 					
		220 fpm or 215.6 to 224.4 fpm.					
		 +/- 11.6 fpm on the strip belts listed at 					
		290 fpm or 278.4 to 301.6 fpm					
		On the induction line control panel, push the					
		Induct package Start pushbutton to start the					
		infeed line.					
		2. Check Infeed Belt conveyor for proper					
		tracking and tension.					
		3. Check the Infeed Belt conveyor speed					
		(nominal 220 fpm) by using the hand held					
		tachometer.					
		4. Check the Scale Belt conveyor for proper					
		tracking and tension.					
		5. Check the Scale Belt conveyor speed					
		(nominal 220 fpm) by using the hand-held					
		tachometer.					
		6. Check the Timing Belt conveyor for proper					
		tension and tracking.					
		7. Check the Timing Belt conveyor speed					
		(nominal 220 fpm) by using the hand held tachometer.					
		Check the Strip Belt conveyor belt for proper tracking and tension.					
		· ·					
		Check the Strip Belt Conveyor speed (nominal 290 fpm) by using a handheld					
		tachometer.					
		Generate a work order to address any					
		deficiencies.					
		Reference the MTSC SPSS page, PM Source Documentation, Interoll Conveyors folder.					
ODEDATIONAL	44 44	(Parrier Orr)	0.5	40			N 4
OPERATIONAL INDUCT:	41. **	(Power On) Check Weighing Accuracy.	25	10			М
WEIGHING/		Chook Holgining Addardoy.					
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Small Parcel Sortation System	Pilot System						n	nm1	5120							

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
MEASURING		Check the Weigh Scale system for accuracy.					
CONVEYOR		Push the Induct Package Stop pushbutton on the induction line control panel.					
		Press the Scale Stop button on the display screen, to take scale offline.					
		 Using 20 lb. (320 oz.) weight, observe measured weight in each corner, and in the center of scale conveyor. 					
		 Troubleshoot scale if tolerance is plus or minus (+/-) 1 ounce. 					
		Generate a work order to address any deficiencies.					
		Reference MTSC SPSS page, PM Source Documentation, Interoll Conveyors folder, SH Maintenance Training Lesson 8C Scale.					
SORTER	42. **	(Power On)	15	09			W
		Check Destination Chute Jam Sensors on both sides of sorter for proper operation.					
		WARNING: Be cautious when working around or on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts.					
		With the sorter running, block the chute jam sensor, creating a jam.					
		Check that the sorter stops, the red stack lights flash indicating a chute jam.					
		 The Cimplicity HMI displays a discharge chute jam error message, while active. Press the Green Sorter Start pushbutton and start the sorter. 					
		 Note any deficiencies and report them to supervisor. 					
SORTER	43. **	(Power on) Destination Chute Control Switches.	30	09			M

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Equipment Nomenclature	Equ	ipmer	nt Mo	del			•	Bulle	in File	name		Occurr	ence		
Small Parcel Sortation System		Pilot System							mm1	5120					

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	s
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		 Check that all Destination Chute Group Control switches are operational and illuminate when placed in the Off position. Return switch to the On position. Check that the switches are not damaged. Generate a work order to address any deficiencies. 					
SORTER	44. **	 (Power On) Destination Chute Full Sensors. Check the Destination Chute Full Sensors for proper operation. 1. With the sorter stopped, block the chute full sensor on the designated chute. 2. Check the chute selector switch flashes indicating the chute is full. 3. Generate a work order to address any deficiencies. * Time per group of 4 chute selector switches. 	.5**	09			M
SORTER		 (Power On) Tray Closing Device. Check the Tray Closing Devices brushes for proper operation. With the sorter stopped, pull down and return one (1) closing brush. Check that the alarm horn sounds and the red stack lights and MCP Sorter E-Stop indicator flash indicating a tray closing device fault. Press the Turn 2 Fault reset button to clear fault. Press the E-Stop Reset button on the MCP. Repeat steps 1-4 for the second closing brush. Press the Sorter Start pushbutton and start the sorter. Generate a work order to address any deficiencies. 	5	09			M

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Small Parcel Sortation System	Pilot System						n	nm1	5120							

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	s
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
SORTER	46. **	(Power On) Tray Close Verification Sensor (CVS).	5	09			W
		NOTE: Prior to manually opening the trays, pull the maintenance alley pull cord E-Stop to prevent unexpected start up. Once the trays are opened reset the pull cord E-Stop.					
		Check the Close Verification Sensor for proper operation.					
		1. With the Sorter stopped, open 1 or 2 carrier tray doors manually, by pressing the inside and outside tray hook latches located on the outside of the trays, immediately following the Tray Closing Device.					
		NOTE: The Sorter will operate at 15% of normal speed when placed into Maint. Mode.					
		CAUTION: In the next steps, immediately stop the sorter if the CVS fails to do so.					
		 Place the Sorter Mode Switch into Maint. Mode on the MCP. 					
		3. Start the Sorter.					
		 Check that the Sorter stops as the open tray door passes in front of the CVS. 					
		5. Check that the red stack lights flash, and check the Cimplicity HMI for "closing device fault not closed" message.					
		6. Close the open tray doors.					
		 On the Cimplicity screen, click the trays button on the upper right side of screen. 					
		a. Select tray flagged as "not operational".					
		 On the tray details screen select out-of- service to place the tray into a non- operational state. 					
		c. Select "In Service" to return tray to operational status.					
		d. Close tray details screen.					
		3. Click the SPSS-1 button on the upper right side of screen, to return to the main screen.					
		9. Select the CVS-1 icon to view sensor details.					

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Part or	Item			Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No		(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		10. 11.	cor Note	Select reset to return the CVS-1 to operational status. Close sensor details window. ce the sorter into Run mode when mpleted. e any deficiencies and report them to pervisor.					
SORTER	47. **	NO Sign	TE: S	On) ge Verification Sensor (DVS). Sensor Tests are performed under Maint. credentials. ne Discharge Verification Sensor for	15	09			W
		pro	oer o _l ificati At tl	peration by performing a Discharge on Sensor Test on DVS-1 and DVS-2. he FMPCS Main Sorter Controller Menu:					
			a. b. c. d.	Select Maintenance. Select Start a Sensor Test. Select DVS-1. Enter Test Options: 1) Number of trays or windows to examine:[50]					
		2.		2) Tray or window interval [3] ss Escape 2 times and return to the Test ter Equipment menu. Select Start a Discharge Unit Test. Select DC-001.					
			С.	Enter Test Options: 1) Number of times to fire the DU: [20]. 2) Tray or window interval [20]. 3) Tray Modulus [1].					
		3. 4.	Con a.	ss Escape 4 times to Select Sorter atrol Menu. Select Start Sorter . ss Escape to return to the Main Sorter					

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Small Parcel Sortation System	Р.			ot Sy	/ster	n			mm1	5120					

Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	3
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Controller Menu.					
		a. Select View Message Log.					
		b. Select Specific Actions from Log.					
		c. Select the first Action field and enter [2].					
		NOTE: Standard Action Specification 2 represents "Sensor Test".					
		 View log, scroll up to view tray masks and check the tray masks profiles indicating open trays and a working DVS Sensor. 					
		 Repeat steps 1 through 5 to perform a Discharge Verification Sensor Test on DVS -2. 					
		 Note any discrepancies and report them to supervisor. 					
SORTER	48. **	(Power On) Sorter Protection Whisker Sensors: Item on Cover, Derail Detection, and Clear Drive Belt.	30	09			M
		NOTE: This task will require 2 people to perform.					
		Perform a functionality check on the Sorter Protection Sensors.					
		With the sorter not running, trip Item on Cover (IOC-1) whisker switch sensor.					
		a. On the graphics screen check that IOC- 1 reports when tripped.					
		 b. Check the Sorter Stack light assemblies and MCP Sorter E-Stop indicator for Red flashing lights. 					
		c. Press the Reset Turn 1 pushbutton to clear the Turn 1 fault.					
		d. Press the Reset E-Stop pushbutton on the MCP.					
		2. With the sorter not running, trip Derail Detection Sensor 1 (DR-1) whisker switch in Turn 1.					
		a. On the graphics screen check that DR- 1 reports when tripped.					

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Part or	Item		Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No		(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 1 reset pushbutton to clear fault in Turn 1.					
		d.	Press the Reset E-Stop pushbutton on the MCP.					
		D	th the sorter not running, trip Derail etection Sensor 2 (DR-2) whisker switch in rn 1.					
		a.	On the graphics screen check that DR-2 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 1 reset push button to clear fault in Turn 1.					
		d.	Press the Reset E-Stop push button on the MCP.					
		D	th the sorter not running, trip Derail etection Sensors (DR-3) whisker switch in rn 1.					
		a.	On the graphics screen, check that DR-3 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 1 reset push button to clear fault in Turn 1.					
		d.	Press the Reset E-Stop push button on the MCP.					
			th the sorter not running, trip Clear Drive lt (CDB-1) whisker switch in Turn 1.					
		a.	On the graphics screen, check that CDB-1 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 1 reset push button to clear fault in Turn 1.					

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Part or	Item		Task Statement and Instruction	Est.	Min.		Threshold	s
Component	No		(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
				Req (min)	Lev	Hours	Fed (000)	
				, ,			(/	
		d.	Press the Reset E-Stop push button on the MCP.					
		De	th the sorter not running, trip the Derail etection Sensor (DR-4) whisker switch in rn 2.					
		a.	On the graphics screen, check that DR-4 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 2 reset push button to clear fault in Turn 2.					
		d.	Press the Reset E-Stop push button on the MCP.					
		De	th the sorter not running, trip the Derail tection Sensor (DR-5) whisker switch in rn 2.					
		a.	On the graphics screen, check that DR-5 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 2 reset push button to clear fault in Turn 2.					
		d.	Press the Reset E-Stop push button on the MCP.					
		De	th the sorter not running, trip the Derail tection Sensor (DR-6) whisker switch in rn 2.					
		a.	On the graphics screen, check that DR-6 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 2 reset push button to clear fault in Turn 2.					
		d.	Press the Reset E-Stop push button on the MCP.					
			th the sorter not running, trip the Clear ive Belt (CDB-2) whisker switch in Turn 2.					

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	1	7 10 1	Clear Drive Belt (CDB-2) reports when tripped. Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights. Press the Turn 2 reset push button to											
Part or Component	Item No													
Component	INO	(Comply with all current salety precautions)	_				Freq.							
		 a. On the graphics screen, check that Clear Drive Belt (CDB-2) reports when tripped. b. Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights. c. Press the Turn 2 reset push button to clear fault in Turn 2. d. Press the Reset E-Stop push button on the MCP. 10. Press the Reset E-Stop push button on the MCP. 	(min)			(000)								
		11. Note any deficiencies and report them to supervisor.												
SORTER	49. **	(Power On) Hanging Product Sensors.	10	09			M							
		WARNING: Be cautious when working around or on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts.												
		Perform a functionality test on the Hanging Product Sensors.												
		 With the Sorter in operation, block the hanging product sensors in Turns 1 & 2. 												
		Check that the Sorter stops and alarm sounds.												
		Check the MCP Sorter E-Stop indicator illuminates.												
		Check the FMPCS Graphics computer for reporting.												
		Press the MCP Reset E-Stop button to clear alarm.												
		Press the MCP Sorter Start pushbutton to restart sorter.												
SORTER	50.	(Power On)	15	10			W							
CONTEN	30.	Discharge Solenoids Operation.		'			٧ ٧							
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Materian and Object Park	WC	DRK			Е	QUIF	MENT			CLA	ASS	N	UMB	ĒR	TYPE
Maintenance Checklist	CC	DE				ACRO	MYM			CO	DE				
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Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bulletii	า Fileเ	name		Occurr	ence		
Small Parcel Sortation System	Pilot System					r	nm1	5120							

Part or	Item		Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No		(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
				Req (min)	Lev	Hours	Fed (000)	
							1	ı
			a Sequential Discharge Unit Test to ne functionality of the carrier tray					
			ge solenoids					
			the FMPCS Control Station terminal, sign					
			as maint.					
		2. Pre	ess the Sorter Start button on the MCP.					
			the FMPCS Control Station Main Menu lect Maintenance:					
		a.	Select Discharge Unit Tests.					
		b.	Select start a sequential discharge unit test.					
			der Enter Test Options enter the owing:					
		a.	Sequential Test Side [blank]					
		b.	First discharge unit name [DC-001]					
		C.	Last discharge unit name [DC-196] (or last discharge on machine)					
		d.	Number of times to fire each DU [4]					
		e.	Tray or window interval [1]					
		f.	Tray modulus [blank }					
		g.	Number of times to repeat test. [1]					
		_	art test by pressing Enter .					
			ess Escape.					
			•					
		Ca	the FMPCS Terminal screen select ncel a Sequential Discharge Unit Test ce the discharge unit test completes.					
		8. Pre	ess the Stop Sorter pushbutton on the CP.					
		Co	ess Escape 2 times; from the FMPCS ntrol Station terminal Main Sorter ntroller Menu:					
		a.	Select View Message Log.					
		b.	Select specific actions from log.					
		C.	Tab down 4 times to select the first action field, enter the number 4 to view Discharge Unit failures.					

U.S. Postal Service								IDENTI	FICAT	ION					
	WC	RK			Е	QUIF	MENT			CLA	ASS	N	UMBE	₽R	TYPE
Maintenance Checklist	СО	DE				ACRO	MYM			CO	DE				
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Equipment Nomenclature	Equi	ipmer	nt Mo	del				Bullet	in Filei	name	(Occurr	ence		
Small Parcel Sortation System			Pilo	ot Sy	/ster	n			mm1	5120					

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		10. Note which discharge solenoids report discharge problem and/or failure.11. Generate a work order to address any deficiencies.					
SORTER	51. **	(Power on) Split Trays.	.5*	09			W
		NOTE: Place the Sorter in Maint. mode to jog the sorter for access to the trays. Use a ladder placed near the MCP for easy access to the trays. 1. Clean trays using a dust removal brush or					
		general purpose cleaner and cloth to remove any dirt or debris.					
		Remove any foreign material (I.E. labels) from within the tray on all carrier trays.					
		 Generate a work order to address any deficiencies. 					
		* Time per tray					
Sorter	52. **	(Power On) Split Tray Operation	30	10			W
		Observe Split Tray opening operation.					
		NOTE: One sorter revolution in MAINT Mode takes approximately 18 minutes 4 seconds.					
		 At the FMPCS Control Station, press Ctrl- Ctrl to switch to the Main Sorter Controller Menu screen [3]. 					
		NOTE: The discharge chute solenoids can be alternated by changing "DC-000" designator to the desired chute.					
		2. At the FMPCS terminal type:					
		force discharge DC-001 divert on.					
		3. At the FMPCS terminal type:					
		force discharge DC-001 divert2 on to open trays at Discharge Chute 1.					
		4. Place the Sorter Mode switch to MAINT .					
		Press the Sorter Start pushbutton on the MCP. The sorter will operate at a reduced					

U.S. Postal Service								IDENTIF	ICAT	ION					
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Equipment Nomenclature	Equ	ipmer	nt Mo	del			•	Bulletin	File	name		Occurr	ence		
Small Parcel Sortation System			Pilo	ot Sy	/ster	n		r	nm1	5120					

Component No (Comply with all current safety precautions) Time Red (min) Red (Part or	Item	Task Statement and Instruction	Est.	Min.	Threshold	S
6. Observe tray opening function: a. Record the tray number if the doors slam open, bounce excessively, or are very noisy. b. Verify the shock absorber impact block is present. c. Verify the shock is present. 7. Press the Sorter Stop pushbutton on the MCP. 8. At the FMPCS terminal type unforce all to remove force command. 9. Place the Sorter Mode switch to RUN. 10. Generate a work order to address any deficiencies. OVIS CABINET: US 53. ** — ADDRESS UPDATE OVIS ADDRESS DATABASE UPDATE OVIS ADDRESS DATABASE UPDATE OVIS ACTION OF ADDRESS DATABASE UPDATE OVIS	Component	No	(Comply with all current safety precautions)	Req		Fed	Freq.
2. Open OVIS Controller to display the SPSS-OVIS GUI. 3. From the home screen, click Tools>NDSS Update.	OVIS CABINET: US: - ADDRESS UPDATE OVIS ADDRESS DATABASE	No	speed (approximately 15% of normal speed). 6. Observe tray opening function: a. Record the tray number if the doors slam open, bounce excessively, or are very noisy. b. Verify the shock absorber impact block is present. c. Verify the shock is present. 7. Press the Sorter Stop pushbutton on the MCP. 8. At the FMPCS terminal type unforce all to remove force command. 9. Place the Sorter Mode switch to RUN. 10. Generate a work order to address any deficiencies. Download And Update OVIS AddressDataBase Update Script. WARNING: Be cautious when working around or on equipment when power has been applied. NOTE: The NDSS address files reside on the IRS computer, requiring each individual computer to be brought up as an IRS computer. Use one of the other computers brought up as a PIP computer. 1. Use the keyboard strokes (CTRL, CTRL, Workstation #1, #2, #3, and Enter) to navigate to the computer running as the PIP (Workstation 1). 2. Open OVIS Controller to display the SPSS-OVIS GUI. 3. From the home screen, click Tools>NDSS	Time Req (min)	Skill Lev	Pieces Fed	Freq.

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Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bul	letin	Filer	name		Occur	rence		
Small Parcel Sortation System			Pilo	ot Sy	/ster	n			m	nm1	5120					

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	6
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
·			Req (min)	Lev	Hours	Fed (000)	·
			(111111)			(000)	
		6. Click OK when completed.					
		7. Power down IRS computer (Workstation 2).					
		8. Power up the OVIS Spare computer (Workstation 3) as an IRS computer.					
		Once Workstation 3 is Up, perform steps 1 through 6.					
		10. Power down Workstations 1 & 3.					
		 Power up Workstation 2 as a PIP and Workstation 1 as an IRS computer. 					
		12. Navigate to Workstation 2 (PIP) by pressing CTRL, CTRL, 2, and Enter.					
		13. Perform steps 1 through 6.					
		14. Power down Workstations 1 & 2.					
		 Power up the OVIS computers in their original configuration (Workstation 1 as a PIP and Workstation 2 as an IRS. 					
		Reference MTSC SPSS page, PM Source Documentation, SPSS OVIS Folder, OVIS Users Handbook.					
PSOC	54.	Perform PSOC Calibration	20	10			W
		Perform Section 10, in the USPS - 212 SPSS Installation Manual to calibrate the PSOC, verify camera angle, focus camera, and check the camera ADC setup.					
		NOTE: If site adds, removes, or replaces a light source (broken light bulb) that will affect the ambient lighting of the camera, PSOC will need to be calibrated.					
		Reference the MTSC SPSS page, PM Source Documentation, USPS-212 SPSS Installation Manual, Section 10.					
FMPCS	55. **	Perform Site Data Backup	15	10			М
		Perform Site Data Backup on the FMPCS computer.					
		Reference the MTSC SPSS page, PM Source Documentation, SPSS FMPCS folder, Making a Site Data Backup.					
	56. **	Safety Task (Power On)	90	09			М
INTERLOCKS AND E-STOPS		Check All Interlocks and E-Stops.					

U.S. Postal Service								IDE	NTIF	ICATI	ON					
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Equipment Nomenclature	Equ	ipmer	nt Mo	del				В	ulletir	Filer	name	(Occurr	ence		
Small Parcel Sortation System			Pilo	ot Sy	/ster	n			n	nm1	5120					

Part or	Item		Task Statement and Instruction	Est.	Min.		Threshold	s
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
				Req (min)	Lev	Hours	Fed (000)	
				()			(000)	
		or on applied. be runn clothing	NG: Be cautious when working around equipment when power has been This task requires that the machine ing. Take precautions to prevent hair, jewelry, tools, and test equipment ing caught in moving parts.					
		one inter	When performing this step, check only rlock switch and one emergency stop ith machine running. Check all other and E-Stop switches while machine is					
			/erify light conditions and warning sounds E-Stop and interlock.					
		1. Loa Gra	d MAINT.rt Sort plan at FMPCS phics Screen HMI.					
			sure the Mode Selection Switch on the n Control Panel is in the "Run Mode".					
			sh the Green Sorter Start Pushbutton on Main Control Panel Cabinet to start the SS.					
		a.	Verify that when the Sorter Start pushbutton is pressed, all the amber stack light assembly indicators and horn pulses for 10 seconds, which indicates a warning that the system is starting up and a physical or electrical hazard exist.					
		b.	5 seconds prior to starting the sorter, the horn alarm stops and the amber stack light assembly indicators flash.					
		C.	When the sorter starts up, the amber stack light goes off, the Green Stack light indicators flash until the machine reaches full operational speed.					
			ss one Emergency-Stop switch assembly note that following occurs:					
		a.	Machine stops immediately.					
		b.	Lamp lights in EMERG STOP switch.					
		C.	Red light illuminates on all stack light assemblies.					
		d.	Green Sorter Running lamp goes out on Main Control Panel Cabinet.					

U.S. Postal Service								IDE	NTIF	ICATI	ON						
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Maintenance Checklist	CO	DE				ACRO	MYNC				CO	DE					
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Equipment Nomenclature	Equ	ipmer	nt Mo	del				В	ulletir	Filer	name		Occurr	ence			
Small Parcel Sortation System			Pilo	ot Sy	/ster	n			n	nm1	5120		Occurrence				

De-t	140	1		Tools Chatagorate and Instruction	Fe!	NA: I		Thurster	
Part or Component	Item No		(Task Statement and Instruction Comply with all current safety precautions)	Est. Time	Min. Skill	Run	Threshold: Pieces	s Freq.
Component			,	comply man amount out of procedure.	Req	Lev	Hours	Fed	1 104.
					(min)			(000)	
			e.	Red Sorter E-Stop lamp on Main Control Panel Cabinet illuminates.					
			f.	Fault on FMPCS Graphics Screen HMI indicates approximate location of E-Stop/Interlock being tested.					
			g.	Pressing Sorter Start pushbutton does not start machine.					
		5.		et EMERG STOP switch and note that owing occurs:					
			a.	Sorter E-Stop lamp on Main Control Panel Cabinet flashes.					
			b.	Red light flashes on ALL the Stack Light Assemblies.					
			C.	Lamp goes out in EMERG STOP switch assembly.					
			d.	Press the Reset E-Stop pushbutton on the Main Control Panel Cabinet.					
			e.	Red E-Stop lamp goes out on the Main Control Panel.					
			f.	Red stack light goes out on all stack light assemblies.					
			g.	Press the Sorter Start pushbutton on the Main Control Panel Cabinet to start the Sorter.					
			h.	Verify that when SORTER START pushbutton is pressed, the stack light assembly amber indicator and horn pulses for 10 seconds, which indicates a warning that the system is starting up and a physical or electrical hazard.					
			i.	Five seconds prior to starting the Sorter, the horn alarm stops and the amber stack light assembly indicators flash.					
			j.	When the Sorter starts up, the amber stack light goes off, and the Green Stack light indicators flash until the machine reaches full operational speed.					
			k.	Stop the machine and exit sort plan.					
		6.	With	nout starting and stopping machine, ck all remaining EMERG STOP switches					

U.S. Postal Service								IDEN	NTIF	CAT	ON					
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Maintenance Checklist	CO	DE				ACRO	MYM				CO	DE				
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Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bu	ılletin	Filer	name		Occurr	ence		
Small Parcel Sortation System			Pilo	ot Sy	/ster	n			n	nm1	5120					

Part or	Item	Task Statement and Instruction	Est.	Min.	Thresholds		
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
		one at time to ensure that each one causes actions as described in items 4b - 4g above to occur when pressed and actions described in items 5a - 5f above to occur when they are reset.					
		 Without starting and stopping machine, check the Pull Cord E-Stop switches one at a time, by pulling the emergency stop pull cords, to ensure that each one causes actions described in items 4b - 4g above to occur when pulled and actions described in items 5a - 5f occur when the Pull Cord E-Stop is reset. Note any deficiencies and report them to 					
		supervisor.					
SPSS	57. **	Create Work Orders For Any Needed Repairs.	10	ALL			D
FINAL-CLEANUP	58. **	Clean-Up.	15	ALL			D
		Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor.					

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

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

ATTACHMENT 3 SPSS MASTER CHECKLIST

09-SPSS-AA-002-M

Operational Maintenance

PILOT SYSTEM

CLASS CODE = AA

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Maintenance Checklist	CO	DE				ACR(MYNC			CO	DE				
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Equipment Nomenclature	Equ	Equipment Model					Bulletir	File	name	(Occurr	ence			
Small Parcel Sortation System	Pilot System					r	nm1	5120			Т	our			

Destas	14	Tools Otatamant and bestmerting	L F	NA:		Thurst - L.	
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. L Skill	Run	Thresholds Pieces	Freq.
Component	140	(Comply with all current salety precautions)	Req	Lev	Hours	Fiedes	r req.
			(min)			(000)	
SAFETY STATEMENT	1.	WARNING: COMPLY WITH ALL SAFETY PRECAUTIONS.	1	ALL			Т
G // LINEI (1		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.					
		WARNING: 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.					
		WARNING: Various products requiring Safety Data Sheets (SDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current SDS for each product used is on file and available to all employees. When reordering such a product, it is suggested that current SDS be requested. Refer to SDS for appropriate personal protective equipment.					
OPERATIONAL:	2.	Monitor Equipment Condition.	5	10			Т
GENERAL		Check Maintenance log book for any outstanding issues.					
		 Ask operators (facers and sweepers) and operations supervisor if they are aware of any equipment problems. Investigate reported problems. 					

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Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bu	lletin	Filer	name	C	Occurr	ence		
Small Parcel Sortation System	Pilot System					n	nm1	5120			Т	our				

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Run	Thresholds Pieces	Freq.
Component	140	(Comply with all outlone safety productions)	Req	Lev	Hours	Fed	r req.
			(min)			(000)	
OPERATIONAL: FMPCS SORT	3.	Check FMPCS Sort Controller Computer Maintenance Reports.	5	10			Т
CONTROLLER		·					
		 Run Maintenance Report on All Devices to check for anomalies. 					
		Run Condition Report on All Devices to check for anomalies.					
		 Run Tour Maintenance Long Report to check for reoccurring anomalies, such as Shaft Encoder errors, Index Sensor errors, or Closing Device faults. 					
OVIS CABINET:	4.	Check OVIS Controller Computer.	5	10			Т
RACK COMPUTER		CAUTION: Limit the time that the OVIS Rack door is open as there is no filtering of air intake to the rack components while the door is open.					
		Check the OVIS GUI (Graphical User Interface/Homescreen) display status of the system and it's sub-systems during operation.					
		 Check that the system indicator icons on the Homescreen are green. 					
		 If an icon on the Homescreen is not green, open the View Messages window to obtain additional information about the status or particular error message. 					
		3. The OVIS icon on the FMPCS Graphics Display will change color, (green, yellow, orange, red) depending on the OVIS System health status. The graphics screen will display the same error/status message found on the OVIS Message window.					
INDUCT:	5.	Check Induction Stations.	10	09			Т
INDUCTION STATION		Check the Induction Line conveyor belts for damage. Observe proper tracking of belts.					
		Check Dimensioner for debris, clean with a lint free cloth or microfiber glove if necessary.					
		 Check induction for proper positioning of parcels on carrier cells. All sizes, shapes, and weights should be centered laterally and slightly forward of center longitudinally. 					

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Equipment Nomenclature	Equ	ipmer	nt Mo	del				Βι	ulletin	Filer	name		Occurr	ence		
Small Parcel Sortation System	Pilot System						n	nm1	5120			Т	our			

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Note any discrepancies in log book and initiate corrective action.					
SORTER	6.	 Check for proper operation of the trays. Ensure they open completely. Check tray closing operation as the trays pass through the tray closing device brushes, ensure the trays close and latch properly. 	10	09			Т

ATTACHMENT 4

SPSS MASTER CHECKLIST

03-SPSS-BA-003-M

CLASS CODE = BA

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Maintenance Checklist	_	RK			_		MENT	•		_	ASS	N	UMBI	ΞR	TYPE
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Equipment Nomenclature	Equ	Equipment		del				Bulle	tin File	name		Occurr	ence		
Small Parcel Sortation System									mm1	5120					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	
Component	No	(Comply with all current safety precautions)	Time Rea	Skill Lev	Run	Pieces	Freq.
			(min)	Lev	Hours	Fed (000)	
	1	1	/			(550)	
0.4557.4	14	WARNING COMPLY W			ı		
SAFETY	1.	WARNING: COMPLY WITH ALL SAFETY	1	ALL			D
STATEMENT		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. 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.					
		WARNING: 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.					
		·					
		WARNING: Various products requiring Safety					
		Data Sheets (SDS) may be utilized during the					
		performance of the procedures in this					
		bulletin. Ensure the current SDS for each					
		product used is on file and available to all					
		employees. When reordering such a product,					
		it is suggested that current SDS be requested.					
		Refer to SDS for appropriate personal protective equipment.					
		protective equipment.		L			
SPSS	2. **	Power Down And Lock Out Power.	5	ALL			D
		NOTE: Coff roboot of the committee in the OVIII					
		NOTE: Soft-reboot of the computers in the OVIS					
		RACK is not needed when complying with the					
		current Maintenance Management Order (MMO)					
		providing lockout/restore procedures.					
		Power down the machine and lock out its power					
		as prescribed by the current local lockout					
		instructions providing lockout/restore procedures.					
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Maintanana Obaaldiat	_	RK			_		MENT				CLA		N	UMBI	ER	TYPE
Maintenance Checklist	CO	DE				ACRO	MYM				CO	DE				
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Equipment Nomenclature	Equ	quipment N		del			-	Bul	letin	Filer	name		Occurr	ence		
Small Parcel Sortation System		is it						m	m1:	5120						

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Run	Thresholds Pieces	Freq.
Component	140	(Comply with all current salety precautions)	Req	Lev	Hours	Fiedes	гтец.
			(min)			(000)	
		Reference MTSC SPSS page, PM Source					
		Documentation, SPSS Start Up/Shut Down					
		Folder, Maintenance Training Lesson 5.					
FMPCS	3. **	Shut Down and Restart FMPCS Program.	10	10			D
		 On the FMPCS Site Utilities Screen [0] Main Menu, press S to shut down the FMPCS Program. 					
		When the "FMPCS is down" message is displayed press Enter to continue.					
		 On the FMPCS Site Utilities Screen [0] Main Menu, press R to restart the FMPCS program. 					
ALL PURPOSE	4. **	Perform Mail Search.	15	07			D
CONTAINER UNLOADER (APCU)		 Check the area between the APCU and the incline conveyor for mail. 					
(/		2. Check all guards are in place.					
		Return all mail found during mail search to the proper mail path.					
ALL PURPOSE	5.	Entry Photo Eyes.	10	07			W
CONTAINER UNLOADER (APCU)		Clean entry photoeyes and reflectors on the APCU.					
(AFCO)		Generate a work order to address any deficiencies.					
ALL PURPOSE	6.	Check Hydraulic Lines.	25	09			W
CONTAINER UNLOADER (APCU)		Check the condition of all hydraulic cylinder hoses and fittings for leaks.					
(*** 33)		 Check condition of the hydraulic reservoir unit hoses and fittings. Check for leaks. Look for damage caused by foot traffic, falling parcels, or abrasion by moving parts which could cause a future leak to occur. 					
		 Generate a work order to address any deficiencies. 					
ALL PURPOSE	7. **	Check For Signs Of Wear.	25	09			М
CONTAINER UNLOADER (APCU)		Check the main pivot pins and bushings for signs of wear.					
(, 55)		Check cylinder clevis pins and bushings for signs of wear.					
		3. Check Unloader frame for damage or loose					

U.S. Postal Service								IDENT	FICAT	ION					
Maintenance Checklist	_	RK			_		MENT	•		_	ASS	N	UMBI	ΞR	TYPE
Maintenance Checkinst	CC	DE				ACRO	MYM			CC	DDE				
	0	3	S	Р	S	S				В	Α	0	0	3	M
Equipment Nomenclature	Equ	Equipment		del				Bulle	tin File	name		Occurr	ence		
Small Parcel Sortation System									mm1	5120					

Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	2
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
	1	floor anchors. Check for cracks and metal			l	1	
		fatigue at pivot points and near welds. Verify					
		clevis pin retaining hardware is in place and					
		secure.					
		Check for damaged or missing container stops.					
		Generate a work order to address any deficiencies.					
		Reference MTSC SPSS page, PM Source Documentation, Southworth APCU Folder, APCU Operating and Maintenance Manual.					
	8. **	Check Hydraulic Fluid.	15	09			М
CONTAINER UNLOADER (APCU)		WARNING: Discard or dispose of chemical soaked materials according to SDS and in accordance with local procedures.					
		Check the hydraulic fluid level using sight glass while the unloader is in the lowered position.					
		2. Check fluid for evidence of water contamination (cloudy), discoloration from overheating, unusual odor, and/or excessive particulates (examine sample on blotter).					
		Check reservoir for clogged breather/fill cap. Clean or replace as necessary.					
		4. Add fluid as necessary. Use CITGO AW 32 Hydraulic Oil.					
		Reference MTSC SPSS page, PM Source Documentation, Southworth APCU Folder, APCU Operating and Maintenance Manual.					
ALL PURPOSE	9.	Change Hydraulic Fluid.	300	07			S
CONTAINER UNLOADER (APCU)		WARNING: Discard or dispose of chemical soaked materials according to SDS and in accordance with local procedures.					
		Change hydraulic fluid and filter.					
		Remove old hydraulic fluid and replace using 15 gallons of CITGO AW 32 Hydraulic Oil.					
		 Replace oil filter element, PSN 3920-10-000- 1090. 					
		Reference MTSC SPSS page, PM Source					
	1			<u> </u>	1	1	L

U.S. Postal Service								IDE	NTIF	ICAT	ON					
Maintananaa Chaakliat	WC				_		MENT				_	ASS	N	UMBI	ĒR	TYPE
Maintenance Checklist	CO	DE				<u>ACRC</u>	MYM				C	DE				
	0	3	S	Р	S	S					В	Α	0	0	3	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				В	ulletir	n Filer	name	(Occuri	ence		
Small Parcel Sortation System									r	nm1	5120					

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	s
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Documentation, Southworth APCU Folder, APCU Operating and Maintenance Manual.					
INCLINE CONVEYOR	10.**	Check for mailpieces at the top and around the bottom of the conveyor. Return all mail found during mail search to the proper mail path.	10	07			D
INCLINE CONVEYOR	11.**	 Belts, Sprockets, Wear Strips, and Rollers. NOTE: Perform the following tasks after removing the hinge rods and opening the Bulk Handling conveyor belts. 1. Vacuum and clean drive sprockets at the head end and the idler wheels on the lower end of conveyor. 2. Check drive sprockets and idler wheels for wear. a. Sprockets should be in contact with the shaft where teeth engage the belt. b. Replace sprockets or wheels when a gap of more than 2 mm develops between any sprocket and wheel on the related shaft. 3. Check that the Bulk Handling conveyor cogs are engaging with the belt sections. 4. Check wear strips for signs of cracks and deteriorating conditions. 5. Check under side of belts for signs of damage. 6. Check that all Bulk Handling Line rollers are clean and spinning freely. Reference MTSC SPSS page, PM Source Documentation, Incline Conveyor Folder, SH Maintenance Training Lesson 8A, Bulk Handling Conveyor. 	300	09			Q
INCLINE CONVEYOR	12.**	Bulk Handling Conveyor 1. Measure the Bulk Handling Line conveyor belt section to section for pitch elongation.	25	09			S
		2. Generate a work order to address any					

U.S. Postal Service								IDENT	FICAT	ION					
Maintenance Checklist	_	RK			_		MENT	•		_	ASS	N	UMBI	ΞR	TYPE
Maintenance Checkinst	CC	DE				ACRO	MYM			CC	DDE				
	0	3	S	Р	S	S				В	Α	0	0	3	M
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bulle	tin File	name		Occurr	ence		
Small Parcel Sortation System							mm1	5120							

Component No (Comply with all current safety precautions) Time Red Lev Run Pices Freq Lev Run Pices Freq Lev Run Run Pices Red Run Run	Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	
deficiencies. Reference MTSC SPSS page, PM Source Documentation, Intralox Conveyors Folder, Instruction Handbook Modular Plastic Belt Equipment Handbook volular Plastic Roller Controlling the Bulk Handling Line conveyor with lint free cloth. Reference MTSC SPSS page, PM Source Documentation, Incline Conveyor Folder, SH Maintenance Training Lesson 8A, Bulk Handling Conveyor. INCLINE CONVEYOR 14. Static Roller Conveyor 1. Vacuum the Static Roller Conveyor using a soft brush attachment. 2. Check the conveyor for damage or missing rollers. INDUCTION 15.** Perform Mail Search. 1. Check for mailpieces around the induction line conveyors and platform. 2. Return all mail found during mail search to the proper mail path. INDUCTION 16.** Kore Sensors with lint free cloth. 2. Clean Dimensioner light curtains and Kore strip LEDs using a lint free cloth or microfiber glove. Reference MTSC SPSS page, PM Source Documentation, Interoll Conveyors Folder, SH Maintenance Training Lesson 8B. INDUCTION 17. Transition Plates. 1. Clean the Induction Line to Sorter transition plates with a general purpose cleaner and cloth. 2. Clean the Induction Jam Sensor emitter and								
INCLINE CONVEYOR 13. Static Roller Conveyor 1. Vacuum the Static Roller Conveyor solder, SH Maintenance Training Lesson 8A, Bulk Handling Conveyors and platform. 25 07 07 07 07 08 07 08 07 08 08	·				Lev	Hours		
Reference MTSC SPSS page, PM Source Documentation, Intralox Conveyors Folder, Instruction Handbook Modular Plastic Belt Equipment Handbook Modular Plastic Belt Equipment Handbook Modular Plastic Belt Equipment Handbook v1.0, Section 5.2.1.1 for instructions. INCLINE CONVEYOR 13. Control Photoeyes. Clean the three (3) (Head End, Call, and Full) control photoeyes and reflectors controlling the Bulk Handling Line conveyor with lint free cloth. Reference MTSC SPSS page, PM Source Documentation, Incline Conveyor Folder, SH Maintenance Training Lesson 8A, Bulk Handling Conveyor. INCLINE CONVEYOR 14. Static Roller Conveyor 1. Vacuum the Static Roller Conveyor using a soft brush attachment. 2. Check the conveyor for damage or missing rollers. INDUCTION PLATFORM 15.** Perform Mail Search. 1. Check for mailpieces around the induction line conveyors and platform. 2. Return all mail found during mail search to the proper mail path. INDUCTION CONVEYOR 16.** Kore Sensors and Dimensioner. 1. Clean Kore Sensors with lint free cloth. 2. Clean Dimensioner light curtains and Kore strip LEDs using a lint free cloth or microfiber glove. Reference MTSC SPSS page, PM Source Documentation, Interoil Conveyors Folder, SH Maintenance Training Lesson 8B. INDUCTION 17. Transition Plates. 1. Clean the Induction Line to Sorter transition plates with a general purpose cleaner and cloth. 2. Clean the Induction Jam Sensor emitter and				(min)			(000)	
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Soft brush attachment. 2. Check the conveyor for damage or missing rollers. INDUCTION PLATFORM 15.** Perform Mail Search. 1. Check for mailpieces around the induction line conveyors and platform. 2. Return all mail found during mail search to the proper mail path. INDUCTION CONVEYOR 16.** Kore Sensors and Dimensioner. 1. Clean Kore Sensors with lint free cloth. 2. Clean Dimensioner light curtains and Kore strip LEDs using a lint free cloth or microfiber glove. Reference MTSC SPSS page, PM Source Documentation, Interoll Conveyors Folder, SH Maintenance Training Lesson 8B. INDUCTION 17. Transition Plates. 1. Clean the Induction Line to Sorter transition plates with a general purpose cleaner and cloth. 2. Clean the Induction Jam Sensor emitter and	CONVEYOR		1. Vacuum the Static Roller Conveyor using a					
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Clean the Induction Line to Sorter transition plates with a general purpose cleaner and cloth. Clean the Induction Jam Sensor emitter and	INDUCTION	17.	Transition Plates.	15	07			W
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			plates with a general purpose cleaner and					
			2. Clean the Induction Jam Sensor emitter and					
10001/01 With a link free dioth of filliologiber			receiver with a lint free cloth or microfiber					

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U.S. Postal Service								IDE	NTIF	ICAT	ON					
Maintananaa Chaakliat	WC				_		MENT				_	ASS	N	UMBI	ĒR	TYPE
Maintenance Checklist	CO	DE				<u>ACRC</u>	MYM				C	DE				
	0	3	S	Р	S	S					В	Α	0	0	3	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				В	ulletir	n Filer	name	(Occuri	ence		
Small Parcel Sortation System									r	nm1	5120					

		T	1 - 1			-	
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Run	Threshold: Pieces	
Component	INO	(Comply with all current salety precautions)	Req	Lev	Hours	Fed	Freq.
			(min)			(000)	
		glove.					
		3. Check the transition plates for damage.					
		Generate a work order to address any					
		deficiencies.					
INDUCTION	18.	Induction Power Panels.	15	07			Q
		Clean the air filters in the Induction Power Panel fan housings.					
		Reference the MTSC SPSS page, PM Source					
		Documentation, Maintenance Training					
		Diagnostics Folder, SH Maintenance Training Lesson 10.					
SORTER	19.**	Perform Mail Search.	20	07			D
		Check the areas for mail in, beneath, and around all discharge chutes.					
		Check for mail in the maintenance alley of					
		sorter.					
		3. Check the areas around Turns 1 & 2.					
		 Check the area near and around the Tray Closing Device. 					
		Return all mail found during mail search to the proper mail path.					
SORTER	20.**	Article Between Tray (ABT), Product Stuck in Tray (PST) Arrays.	15	07			W
		Clean the Article Between Tray and Product					
		Stuck in Tray photoeye emitters and receivers for					
		each of the ABT\PST arrays, (3 total) with a lint					
		free cloth or microfiber glove.					
SORTER	21.**	Hanging Product Photoeyes and Reflectors.	4	07			W
		Clean the Hanging Product Photoeyes and					
		Reflectors, near Turns 1 & 2 with a lint free cloth					
		or microfiber glove.					
SORTER	22.	Chute Jam Sensors	10	07			W
		Clean the Chute Jam 1-4 Photoeye emitters and					
		receivers located on both sides of the sorter, with					
		a lint free cloth or microfiber glove.					
SORTER	23.**	Split Trays.	60	09			M
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Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Check the tray bumpers are present and properly seated.					
		Check the tray shock absorber is not damaged, straight not leaking oil.					
		Check the shock absorber impact block is securely mounted.					
		4. Check the tray spring support rod is securely mounted, and the tray spring is present.					
		5. Check the condition of the drive plates.					
		Check mounting points for cracks and ensure that the drive plate is straight.					
		 Check the Tray 1 Detection Magnet is securely mounted. 					
		Generate a work order to address any deficiencies.					
SORTER	24.	Anti-Static Brushes.	1	09			W
		Check the anti-static brushes for damage.					
		The brushes should be intact and remain in contact with the side of the split tray carrier.					
		 Generate a work order to address any deficiencies. 					
		Reference the MTSC SPSS page, PM Source Documentation, SPSS Sorter Folder, SH Maintenance Training Lesson 8D.					
SORTER	25.**	Tray Closing Device.	5	09			W
		Check Tray Closing Brushes for damage.					
		Measure brush length; minimum brush length is 15 mm. Replace brush as needed.					
		Actuate both closing brushes to check for proper operation.					
		 Check both gas spring mounting blocks are secured to the retractable arms. 					
		Check both closing device hinges for signs of wear and are properly secured to the retractable arms.					
		Generate a work order to address any deficiencies.					
		Reference the MTSC SPSS page, PM Source					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Documentation, SPSS Sorter Folder, SH Maintenance Training Lesson 8D.					
SORTER	26.**	 Check induction support belts for fraying and signs of damage. Check the belt guides for signs of damage and remove any built up debris. Check the induction support drive motor and gearbox for signs of leaks. Ensure the drive and idler pulleys are secure. Check belt idle rollers are secure, free of debris, and spin freely. Check for flat spots on wheels. Generate a work order to address any deficiencies. Reference the MTSC SPSS page, PM Source Documentation, SPSS Sorter Folder, SH Maintenance Training Lesson 8D. 	10	09			M
SORTER	27.**	 Sorter Drive Motor(s) Hardware. Loosen the top 2 screws and remove the bottom 2 screws to remove the back panel safety cover, and check overall drive motor assembly for loose or missing hardware. Check power cable conduit for signs of damage and cracks, and conduit connections are secured and tight. Check friction and drive rollers for damage and cracks. Check drive and timing belts for fraying, cracks, or signs of damage. Check the tensioner assembly and ensure tension spring is secure. On the drive motor assembly hosting the encoder, check that the encoder mounting bracket is secured, and cable connection is tight. Replace back panel safety panel cover. Reinstall 2 screws on the back panel safety cover and tighten and secure all 4 panel 	40	09			М

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Part or	Itom	Task Statement and Instruction	Est.	Min.		Throchold	2
Component	Item No	(Comply with all current safety precautions)	Time	Skill	Run	Threshold: Pieces	s Freq.
		(**)	Req	Lev	Hours	Fed	
			(min)			(000)	
		mounting screws.					
		Generate a work order to address any deficiencies.					
		*Estimated time includes 4 Drive motor assemblies total.					
SORTER	28.**	Destination Chute Full Sensor.	1**	09			М
		Check destination chute full sensor is securely mounted to the mounting plate.					
		Check sensor cable Quick disconnect connection is secured to sensor.					
		 Clean the chute full sensor using a lint free cloth or microfiber glove. 					
		 Generate a work order to address any deficiencies. 					
		* Time per group of 4 destination chute groups.					
SORTER	29.**	Main Electrical Cabinet.	4	07			Q
		Clean the air filters in the Main Electrical Panel fan housings.					
		Replacement filter:					
		PSN: 5915-17-000-6214					
		Outlet Filter, NEMA 12, 204x204mm.					
		Reference the MTSC SPSS page, PM Source Documentation, SPSS Sorter Folder, SPSS-1493-Fan documentation.					
SORTER	30.	Destination Chutes.	15	09			Q
		Check the destination chute surfaces for any damage.					
		Generate a work order to address any deficiencies.					
SORTER	31.**	Carrier Tray Track.	30	09			S
		Check the Sorter curve track sections in turn and turn 2 for indications of carrier tray wheel induced wear.					
		Clear the 2 debris slots in each turn 1 and turn 2.					
		Check the Sorter carrier track sections					

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Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		following the Drive Units for carrier tray wheel induced wear. 4. Generate a work order to address any deficiencies.					
SORTER	32.**	Carrier Train Tension.	15	09			Α
		1. Measure the Carrier train for proper tension.					
		2. Verify the tension is between 35 & 45 kg.					
		3. Replace carrier links (PSN 3915-17-000-6319) if tension is below 35 kg.					
		Refer to the Eurosort Maintenance Manual, Section 3.3.3.					
FMPCS	33.	FMPCS Computer Cabinet.	10	07			М
COMPUTER		Vacuum the FMPCS computer cabinet including the top of each device.					
		Clean the air filter on the FMPCS and Cimplicity computer chassis. Replace Filter as necessary.					
PSOC	34.**	Clean Overhead Camera Clear Cover.	5	07			М
		CAUTION: The glass used in this system is fragile enough to break if pressure is applied.					
		NOTE: Do not spray the equipment. Only a misting of the cloth is required. Optionally, use a streak-free glass cleaner.					
		Using a lint-free cloth, gently wipe the underside of the clear cover over the camera lens and led array.					
		Use a spray bottle containing tap water to moisten cloth for wiping away stubborn smudges.					
	35.**	Clean Item Detection Cameras	10	07			Q
CAMERAS		Clean the Induction Verification Sensor using a lint free cloth.					
		Clean the Load Verification Sensor using a lint free cloth.					
OVIS RACK: RACK	36.	Replace Air Filter.	5	07			Q
DOOR AIR FILTER		1. Replace two (2) air filters, (PSN 4130-15- 000-7240). Use 18" x 30" x 1" filter with					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	3
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		MERV 8 rating.					
		Check the 12 exhaust fans on the rear of the OVIS cabinet to ensure fans are running.					
	37.**	Restore Equipment To Service.	5	ALL			D
GENERAL		WARNING: Be cautious when working around or on equipment when power has been applied.					
		Restore power to equipment as prescribed by the current local procedures providing lockout/restore procedures.					
		Reference MTSC SPSS page, PM Source Documentation, SPSS Start Up – Shut Down Folder, SH Maintenance Training Lesson 5 Start Up.					
	38.**	(Power On)	10	07			W
APCU		Check Unloader Entry Photoeyes for proper operation.					
		Place the mode selection switch to Auto .					
		 With the unloader in the fully lowered position, push and hold the UP button for up to 5 seconds to begin operation. 					
		 b. Check the amber stack light flash and horn pulse for up to 5 seconds prior to unloader movement. 					
		2. During movement, block each unloader entry photoeyes individually (3) and check that the unloader stops.					
		Check that that the Guard Reset amber pushbutton is illuminated.					
		b. Press the Guard Reset pushbutton to clear the fault.					
		c. Press the Up pushbutton to restart cycle.					
		Lower unloader to the fully lowered position when completed.					
		Note any deficiencies and report them to supervisor.					
		Reference the MTSC SPSS page, PM Source					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	s
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Documentation, Southworth APCU Folder, APCU Operating and Maintenance Manual.					
OPERATIONAL	39.**	(Power On)	10	09			М
APCU		Unloader E-Stops.					
		WARNING: Be cautious when working around or on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts.					
		NOTE: The APCU Unloader E-Stop is local to the individual unloader and reports directly to the control panel.					
		1. Place the operational mode switch in Auto .					
		 With the unloader in the fully lowered position, push and hold the UP button for up to 5 seconds to begin operation. 					
		 Check the amber stack light flash and horn pulse for up to 5 seconds prior to unloader movement. 					
		 During the unloader movement, push the E- Stop Pushbutton on the APCU Control Panel and check that the unloader stops. 					
		 Check the E-Stop Reset pushbutton lamp light comes on in the Emergency Stop switch and the E-Stop reset pushbutton light goes off. 					
		 Pull E-Stop switch out and press E-stop Reset pushbutton. Check the E-Stop reset switch lamp comes on, and the Guard Reset pushbutton lamp comes on after approximately 5-10 seconds. 					
		Press the guard reset pushbutton to reset unloader entry photoeyes.					
		7. Press the Down button to return unloader to the fully lowered position.					
		NOTE : The Remote Operator Terminal E-Stop pushbutton switch is not illuminated. 8. Repeat steps 1 thru 7 for the Remote					

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		Operator Terminal E-Stop pushbutton					
		switch.					
		9. Note any deficiencies and report them to					
		supervisor.					
OPERATIONAL	40.**	(Power On)	30	09			W
APCU		`					
		Check Unloader hydraulic unit operation on each Unloader (2 people recommended).					
		WARNING: Be cautious when working around					
		or on equipment when power has been					
		applied. Some of the following tasks require					
		that the machine be running. Take					
		precautions to prevent hair, clothing, tools,					
		and test equipment from being caught in moving parts.					
		WARNING: If the APCU pressure levels are					
		near or in excess of 1750 PSI, the APCU must					
		be removed from service immediately and					
		repaired.					
		Visually check pump, reservoir, filter, and all					
		connections for leaking fluid.					
		2. With Unloader empty, operate Unloader and					
		look for the following:					
		Verify smooth lift performance during operation.					
		b. Observe motion of each pivot pin &					
		clevis, checking for signs of pin or clevis					
		wear. If any non-rotational motion of					
		the pin is discovered, the clevis bushing					
		should be scheduled for replacement.					
		c. Check floor mounting points and verify					
		floor mounting bolts are secure.					
		d. Visually check gauges for damage.					
		e. Observe the hydraulic pressure gauge.					
		If pressure indicated does not fall within					
		ranges below, initiate corrective action.					
		NOTE: The typical empty APCU pressure reading ranges are as below:					
		*Stage one Tilt Up: 500 PSI to 750 PSI					
		*Stage two Dump Up: 700 PSI to 850 PSI					
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Component	110	(comply with all carrott carety presidents)	Req (min)	Lev	Hours	Fed (000)	r roq.
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		 *Stage three Dump Down: 950 PSI to 1350 PSI 					
		*Stage four Tilt Down: 1100 PSI to 1450 PSI					
		NOTE: The maximum operating pressure with rated capacity should be less than 1750 PSI. The system release pressure is pre-set at 1750 PSI by the manufacturer.					
		Note any deficiencies and report them to supervisor.					
	41.**	(Power On)	10	09			W
INCLINE CONVEYOR		Check Incline Conveyor Belts for proper tension and tracking.					
		 On the incline conveyor, place the 3-way Selector Switch to the ON position. Observe the incline conveyor belt tracking. 					
		Place the 3-way selector switch to the OFF position.					
		 Check sidewalls for wear or excessive buildup of plastic dust which would indicate signs of improper tracking. 					
		 Check the belt tension by observing belt sag, through the viewing slot in the lower section of the frame, on both sides of the frame. The belt sag should not be below the incline conveyor frame. 					
		Generate a work order to address any deficiencies.					
		Reference the MTSC SPSS page, PM Source Documentation, Intralox Conveyors, Modular Plastic Belt Equipment Instruction Handbook.					
OPERATIONAL	42.	(Power On)	20	09			W
INDUCT: INFEED – SCALE		Check Belt Tracking, Tension, and Speed.					
– TIMING-STRIP BELT CONVEYORS		NOTE: Conveyor belt speeds have a speed variation of plus or minus (+/-) 2% of the nominal belt speed.					
		 +/- 4.4 fpm on induction belts listed at 220 fpm or 215.6 to 224.4 fpm. +/- 11.6 fpm on the strip belts listed at 290 					

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		fpm or 278.4 to 301.6 fpm					
		 On the induction line control panel, push the Induct package Start pushbutton to start the infeed line. 					
		Check Infeed Belt conveyor for proper tracking and tension.					
		 Check the Infeed Belt conveyor speed (nominal 220 fpm) by using the hand held tachometer. 					
		 Check the Scale Belt conveyor for proper tracking and tension. 					
		 Check the Scale Belt conveyor speed (nominal 220 fpm) by using the hand-held tachometer. 					
		Check the Timing Belt conveyor for proper tension and tracking.					
		 Check the Timing Belt conveyor speed (nominal 220 fpm) by using the hand held tachometer. 					
		Check the Strip Belt conveyor belt for proper tracking and tension.					
		 Check the Strip Belt Conveyor speed (nominal 290 fpm) by using a handheld tachometer. 					
		Generate a work order to address any deficiencies.					
		Reference the MTSC SPSS page, PM Source Documentation, Interoll Conveyors folder.					
OPERATIONAL INDUCT:	43.**	Power On) Check Weighing Accuracy.	25	10			М
WEIGHING/		Check weighing Accuracy. Check the Weigh Scale system for accuracy.					
MEASURING CONVEYOR							
CONVETOR		 Push the Induct Package Stop pushbutton on the induction line control panel. 					
		Press the Scale Stop button on the display screen, to take scale offline.					
		 Using 20 lb. (320 oz.) weight, observe measured weight in each corner, and in the center of scale conveyor. 					
		1. Troubleshoot scale if tolerance is plus or	,				

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		minus (+/-) 1 ounce.					
		Generate a work order to address any deficiencies.					
		Reference MTSC SPSS page, PM Source Documentation, Interoll Conveyors folder, SH Maintenance Training Lesson 8C Scale.					
SORTER	44.**	(Power On)	15	09			W
		Check Destination Chute Jam Sensors on both sides of sorter for proper operation.					
		WARNING: Be cautious when working around or on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts.					
		With the sorter running, block the chute jam sensor, creating a jam.					
		Check that the sorter stops, the red stack lights flash indicating a chute jam.					
		 The Cimplicity HMI displays a discharge chute jam error message, while active. Press the Green Sorter Start pushbutton and start the sorter. 					
		Note any deficiencies and report them to supervisor.					
SORTER	45.**	(Power On) Destination Chute Control Switches.	30	09			М
		Check that all Destination Chute Group Control switches are operational and illuminate when placed in the Off position.					
		2. Return switch to the On position.					
		Check that the switches are not damaged.					
		Generate a work order to address any deficiencies.					
SORTER	46.	(Power On) Destination Chute Full Sensors.	.5**	09			М

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		T					
		Check the Destination Chute Full Sensors for					
		proper operation.					
		1. With the sorter stopped, block the chute full					
		sensor on the designated chute.					
		2. Check the chute selector switch flashes					
		indicating the chute is full.					
		Generate a work order to address any deficiencies.					
		* Time per group of 4 chute selector switches.					
SORTER	47.**	(Power On)	5	09			M
		Tray Closing Device.					
		Check the Tray Closing Devices brushes for					
		proper operation.					
		1. With the sorter stopped, pull down and					
		return one (1) closing brush.					
		2. Check that the alarm horn sounds and the					
		red stack lights and MCP Sorter E-Stop					
		indicator flash indicating a tray closing					
		device fault.					
		3. Press the Turn 2 Fault reset button to clear					
		fault.					
		4. Press the E-Stop Reset button on the MCP.					
		-					
		5. Repeat steps 1-4 for the second closing					
		brush.					
		6. Press the Sorter Start pushbutton and start					
		the sorter.					
		7. Generate a work order to address any					
		deficiencies.					
SORTER	48.**	(Power On)	5	09			W
		Tray Close Verification Sensor (CVS).					
		NOTE: Prior to manually opening the trays,					
		pull the maintenance alley pull cord E-Stop					
		to prevent unexpected start up. Once the trays are opened reset the pull cord E-Stop.					
		and opened reset the pull sold L Stop.					
		Check the Close Verification Sensor for					
		proper operation.	<u> </u>		<u> </u>		

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	With the sorter stopped, open 1 or 2 carrier tray doors manually, by pressing the inside and outside tray hook latches located on the outside of the trays, immediately following the Tray Closing Device.					
4	Check that the CVS LED indicator flashes as it is flagged by the open tray door.					I
	NOTE: The Sorter will operate at 15% of normal speed when placed into Maint. Mode.			 		I
(CAUTION: In the next steps, immediately stop the sorter if the CVS fails to do so.					I
;	B. Place the Sorter Mode Switch into Maint . Mode on the MCP.					I
4	I. Start the Sorter.	ŀ	ļ ,			•
ŧ	5. Check that the sorter stops as the open tray door passes in front of the CVS.					I
	6. Check that the red stack lights flash, the marquee displays "CVS-1 Tray not closed" and check the Cimplicity HMI for "CVS-1 Tray not closed" message.					
-	7. Close the open tray doors.	ŀ	ļ ,			ı
8	3. On the Cimplicity screen, click the trays button on the upper right side of screen.					I
	a. Select tray flagged as "not operational".	ŀ	ļ ,			ı
	b. On the tray details screen select out-of- service to place the tray into a non- operational state.					l
	c. Select "In Service" to return tray to operational status.					I
	d. Close tray details screen.		ļ ,			•
Ę	O. Click the SPSS-1 button on the upper right side of screen, to return to the main screen.					I
1	0. Select the CVS-1 icon to view sensor details.		ļ ,			ı
	Select reset to return the CVS-1 to operational status.			<u> </u>		İ
	b. Close sensor details window.					ı
1	Place the sorter into Run mode when					

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Part or	Item			7	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No		(Comp	ly with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
			cor	nplet	ed.					
		12.		e any pervis	deficiencies and report them to sor.					
SORTER	49.**		wer (erification Sensor (DVS)	15	09			W
		prop	oer o	perat	scharge Verification Sensor for ion by performing a Discharge ensor Test on DVS-1 and DVS-2.					
					or Tests are performed under Maint. ntials.					
		1.	At tha.		MPCS Main Sorter Controller Menu: ect Maintenance					
			b.	Sel	ect Start a Sensor Test					
			C.	Sel	ect DVS-1					
			d.	Ent	er Test Options:					
				1)	Number of trays or windows to examine:[50]					
				2)	Tray or window interval [3]					
		2.		ter E	scape 2 times and return to the Test quipment menu ect Start a Discharge Unit Test					
			b.	Sel	ect DC-001					
			C.	Ent	er Test Options:					
				1)	Number of times to fire the DU: [20]					
				2)	Tray or window interval: [20]					
				3)	Tray Modulus [1]					
		3.		trol I	scape 4 times to Select Sorter Menu. ect Start Sorter					
		4.			scape to return to the Main Sorter er Menu.					
			a.	Se	lect View Message Log					
			b.	Sel	ect Specific Actions from Log					

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Part or	Item		Task Statement and Instruction	Est.	Min.		Thresholds	s
Component	No		(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
	· [C.	Select the first Action field and enter [2]					
		NOTE:	Standard Action Specification 2 nts "Sensor Test."					
		che	w log, scroll up to view tray masks, and eck the tray masks profiles indicating open s and a working DVS Sensor.					
			peat steps 1 through 5 to perform a charge Verification Sensor Test on DVS -					
			te any discrepancies and report them to pervisor.					
SORTER	50.**		Protection Whisker Sensors: Cover, Derail Detection, Bent	30	09			M
		NOTE:	This task requires 2 people to perform.					
			a functionality check on the Sorter on Sensors.					
			h the sorter not running, trip Item on ver (IOC-1) whisker switch sensor.					
		a.	On the graphics screen check that IOC-1 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP Sorter E-Stop indicator for Red flashing lights.					
		C.	Press the Reset Turn 1 pushbutton to clear the Turn 1 fault.					
		d.	Press the Reset E-Stop pushbutton on the MCP.					
		De	th the sorter not running, trip Derail tection Sensor 1 (DR-1) whisker switch in 1.					
		a.	On the graphics screen check that DR-1 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 1 reset pushbutton to					

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Part or	Item		Task Statement and Instruction	Est.	Min.		Thresholds	, 1
Component	No		(Comply with all current safety precautions)	Time Req	Skill Lev	Run Hours	Pieces Fed	Freq.
				(min)			(000)	
			clear fault in Turn 1.					
		d.	Press the Reset E-Stop pushbutton on the MCP.					
		De	th the sorter not running, trip Derail tection Sensor 2 (DR-2) whisker switch in rn 1.					
		a.	On the graphics screen check that DR-2 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 1 reset push button to clear fault in Turn 1.					
		d.	Press the Reset E-Stop push button on the MCP.					
		Pla	th the sorter not running, trip Bent Drive te Sensor (BDP-1) whisker switch in rn 1.					
		a.	On the graphics screen, check that BDP-1 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 1 reset push button to clear fault in Turn 1.					
		d.	Press the Reset E-Stop push button on the MCP.					
			th the sorter not running, Derail Detection nsors (DR-3) whisker switch in Turn 2.					
		a.	On the graphics screen, check that DR-3 reports when tripped.					
		b.	Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights.					
		C.	Press the Turn 2 reset push button to clear fault in Turn 2.					
		d.	Press the Reset E-Stop push button on the MCP.					
		6. Wi	th the sorter not running, trip the Derail					

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Run	Threshold: Pieces	s Freq.
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		Detection Sensor (DR-4) whisker switch in Turn 2.					
		 On the graphics screen, check that DR-4 reports when tripped. 					
		 b. Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights. 					
		c. Press the Turn 2 reset push button to clear fault in Turn 2.					
		 d. Press the Reset E-Stop push button on the MCP. 					
		7. With the sorter not running, trip the Bent Drive Plate Sensor (BDP-2) whisker switch sensor in Turn 2.					
		 a. On the graphics screen, check that BDP-2 reports when tripped. 					
		 b. Check the Sorter Stack light assemblies and MCP E-Stop indicator for Red flashing lights. 					
		 Press the Turn 2 reset push button to clear fault in Turn 2. 					
		 d. Press the Reset E-Stop push button on the MCP. 					
		Note any deficiencies and report them to supervisor.					
SORTER	51.**	(Power On) Hanging Product Sensors.	10	09			M
		WARNING: Be cautious when working around or on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts.					
		Perform a functionality test on the Hanging Product Sensors.					
		 With the sorter in operation, block the hanging product sensors in Turns 1 & 2. 					
		Check that the sorter stops and alarm					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
	T	sounds.					
		 Check the MCP Sorter E-Stop indicator illuminates. 					
		 Check the FMPCS Graphics computer for reporting. 					
		5. Press the MCP Reset E-Stop button to clear alarm.					
		Press the MCP Sorter Start pushbutton to restart sorter.					
SORTER	52.**	(Power On) Discharge Solenoids Operation.	15	10			W
		Perform a Sequential Discharge Unit Test to check the functionality of the carrier tray discharge solenoids					
		 At the FMPCS Control Station terminal sign on as maint. 					
		2. Press the Sorter Start button on the MCP.					
		3. At the FMPCS Control Station Main Menu Select Maintenance .					
		4. Select Discharge Unit Tests.					
		5. Select Start A Sequential Discharge Unit Test.					
		Under Enter Test Options enter the following:					
		a. Sequential Test Side [blank]					
		b. First discharge unit name [DC-001]					
		 c. Last discharge unit name [DC-196] (or last discharge on machine) 					
		d. Number of times to fire each DU [4]					
		e. Tray or window interval [1]					
		f. Tray modulus [blank]					
		g. Number of times to repeat test [1]					
		7. Start test by pressing Enter .					
		3. Press Escape .					
		9. At the FMPCS Terminal screen select					

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Dort or	lto.~	Tack Statement and Instruction	Eo+	Min.		Throobald	. 1
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			(min)			(000)	
		Cancel a Sequential Discharge Unit Test					
		once the discharge unit test completes.					
		10. Press the Stop Sorter pushbutton on the					
		MCP.					
		11. Press Escape 2 times; from the FMPCS					
		Control Station terminal Main Sorter Controller Menu:					
		a. Select View Message Log.					
		 Select specific actions from log. 					
		c. Tab down 4 times to select the first					
		action field, enter the number 4 to view Discharge Unit failures.					
		•					
		 Note which discharge solenoids report discharge problem and/or failure. 					
		•					
		 Generate a work order to address any deficiencies. 					
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SORTER	53.**	(Power On) Split Trays.	.5*	09			W
		NOTE: Place the Sorter in Maint. mode to jog the sorter for access to the trays. Use a ladder					
		placed near the MCP for easy access to the					
		trays.					
		Clean trays using a dust removal brush or					
		general purpose cleaner and cloth to					
		remove any dirt or debris.					
		2. Remove any foreign material (I.E labels)					
		from within the tray on all carrier trays.					
		Generate a work order to address any deficiencies					
		deficiencies.					
		* Time per tray					
Sorter	54.**	(Power On)	30	10			W
		Split Tray Operation.					
		Observe Split Tray opening operation.					
		NOTE: One sorter revolution in MAINT Mode					
		takes approximately 18 minutes 4 seconds.					
		At the FMPCS Control Station, press Ctrl-					
		Ctrl to switch to the Main Sorter Controller					
		Menu screen [3].					
		NOTE: The discharge chute solenoids can be					

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		alternated by changing "DC-000" designator to					
		the desired chute.					
		2. At the FMPCS terminal type:					
		force discharge DC-001 divert on.					
		3. At the FMPCS terminal type:					
		force discharge DC-001 divert2 on to open trays at Discharge Chute 1.					
		4. Place the Sorter Mode switch to MAINT .					
		 Press the Sorter Start pushbutton on the MCP. The sorter will operate at a reduced speed (approximately 15% of normal speed). 					
		6. Observe tray opening function;					
		 a. Record the tray number if the doors slam open, bounce excessively, or are very noisy. b. Verify the shock absorber impact block is present. 					
		c. Verify the shock is present.					
		7. Press the Sorter Stop pushbutton on the MCP.					
		At the FMPCS terminal type unforce all to remove force command.					
		9. Place the Sorter Mode switch to RUN .					
		Generate a work order to address any deficiencies.					
OVIS CABINET: US: - ADDRESS	55.**	Download And Update OVIS AddressDataBase Update Script.	20	10			W
UPDATE OVIS ADDRESS DATABASE		WARNING: Be cautious when working around or on equipment when power has been applied.					
UPDATE SCRIPT		NOTE: The NDSS address files reside on the IRS computer, requiring each individual computer to be brought up as an IRS computer. Use one of the other computers brought up as a PIP computer.					
		 Use the keyboard strokes (CTRL, CTRL, Workstation # 1, #2, #3, and Enter) to navigate to the computer running as the PIP (Workstation 1). Open OVIS Controller to display the SPSS- 					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	s l
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
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		OVIS GUI.					
		 From the home screen, click Tools>NDSS Update. 					
		4. From the NDSS type window, select Update from the drop down field, and click OK .					
		 On the NDSS update screen a message stating the OCR will be temporarily unavailable will appear. Select OK YES to proceed. 					
		6. Click OK when completed.					
		7. Power down the IRS computer (Workstation 2).					
		8. Power up the OVIS Spare computer (Workstation 3) as an IRS computer.					
		Once Workstation 3 is Up, perform steps 1 through 6.					
		10. Power down Workstations 1 & 3.					
		 Power up Workstation 2 as a PIP and Workstation 1 as an IRS computer. 					
		12. Navigate to Workstation 2 (PIP) by pressing CTRL, CTRL, 2, and Enter.					
		13. Perform steps 1 through 6.					
		14. Power down Workstations 1 & 2.					
		 Power up the OVIS computers in their original configuration (Workstation 1 as a PIP and Workstation 2 as an IRS. 					
		Reference MTSC SPSS page, PM Source Documentation, SPSS OVIS Folder, OVIS Users Handbook.					
PSOC	56.**	Perform PSOC Calibration.	20	10			М
		Perform Section 10, in the USPS - 212 SPSS Installation Manual to calibrate the PSOC, verify camera angle, focus camera, and check the camera ADC setup.					
		NOTE: If site adds, removes, or replaces a light source (broken light bulb) that will affect the ambient lighting of the camera, PSOC will need to be calibrated.					
		Reference the MTSC SPSS page, PM Source					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Documentation, USPS-212 SPSS Installation Manual, Section 10.					
FMPCS	57.**	Perform Site Data Backup.	15	10			М
		Perform Site Data Backup on the FMPCS computer.					
		Reference the MTSC SPSS page, PM Source Documentation, SPSS FMPCS folder, Making a Site Data Backup.					
SPSS:	58.**	Safety Task (Power On)	90	09			М
INTERLOCKS AND E-STOPS		Check All Interlocks and E-Stops.					
2 0101 0		WARNING: Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.					
		NOTE: When performing this step, check only one interlock switch and one Emergency Stop switch with machine running. Check all other interlock and E-Stop switches while machine is stopped.					
		NOTE: Verify light conditions and warning sounds for each E-Stop and interlock.					
		 Load MAINT.rt Sort plan at FMPCS Graphics Screen HMI. 					
		Ensure the Mode Selection Switch on the Main Control Panel is in the "Run Mode".					
		 Push the Green Sorter Start Pushbutton on the Main Control Panel Cabinet to start the SPSS. 	I				
		a. Verify that when the Sorter Start pushbutton is pressed, all the amber stack light assembly indicators and horn pulses for 10 seconds, which indicates a warning that the system is stating up and a physical or electrical hazard exist.					
		 5 seconds prior to starting the Sorter, the horn alarm stops and the amber stack light assembly indicators flash. 					
		 When the Sorter starts up, the amber stack light goes off, the Green Stack 					

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Part or	Item		Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No		(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
			light indicators flash until the machine reaches full operational speed.					
			ess one Emergency-Stop switch assembly d note that following occurs:					
		a.	Machine stops immediately.					
		b.	Lamp lights in EMERG STOP switch.					
		C.	Red light illuminates on all stack light assemblies.					
		d.	Green Sorter Running lamp goes out on Main Control Panel Cabinet.					
		e.	Red Sorter E-Stop lamp on Main Control Panel Cabinet illuminates.					
		f.	Fault on FMPCS Graphics Screen HMI indicates approximate location of E-Stop/Interlock being tested.					
		g.	Pressing Sorter Start pushbutton does not start machine.					
			set EMERG STOP switch and note that owing occurs:					
		a.	Sorter E-Stop lamp on Main Control Panel Cabinet flashes.					
		b.	Red light flashes on ALL the Stack Light Assemblies.					
		C.	Lamp goes out in EMERG STOP switch assembly.					
		d.	Press the Reset E-Stop pushbutton on the Main Control Panel Cabinet.					
		e.	Red E-Stop lamp goes out on the Main Control Panel.					
		f.	Red stack light goes out on all stack light assemblies.					
		g.	Press the Sorter Start pushbutton on the Main Control Panel Cabinet to start the Sorter.					
		h.	Verify that when SORTER START pushbutton is pressed, the stack light assembly amber indicator and horn pulses for 10 seconds, which indicates a warning that the system is starting up					

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Part or	Item		Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	ı	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
			and a physical or electrical hazard.					
		i.	5 seconds prior to starting the sorter, the horn alarm stops and the amber stack light assembly indicators flash.					
		j.	When the sorter starts up, the amber stack light goes off, and the Green Stack light indicators flash until the machine reaches full operational speed.					
		k.	Stop the machine and exit sort plan.					
		che one act to des	hout starting and stopping machine, eck all remaining EMERG STOP switches at time to ensure that each one causes ions as described in items 4b - 4g above occur when pressed and actions scribed in items 5a - 5f above to occur en they are reset.					
		che a ti cor act occ iter	hout starting and stopping machine, eck the Pull Cord E-Stop switches one at me, by pulling the Emergency Stop pull ds, to ensure that each one causes ions described in items 4b – 4g above to cur when pulled and actions described in ins 5a – 5f occur when the Pull Cord E-p is reset.					
			eck the maintenance access doors process in each turn for proper function.					
		a.	Perform normal start up on the SPSS.					
		b.	Open a maintenance access door.					
		C.	Verify that the Sorter comes to a halt.					
		d.	Sorter E-Stop lamp on Main Control Panel Cabinet flashes.					
		e.	Turn reset button flashes.					
		f.	Fault on FMPCS Graphics Screen HMI indicates location in Turn 1 or Turn 2 Interlock.					
		g.	Pressing Sorter Start pushbutton does not start machine.					
			e any deficiencies and report them to pervisor.					

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Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
	1						
SPSS	59.**	Create Work Orders For Any Needed Repairs.	10	ALL			D
FINAL-CLEANUP	60.**	Clean-Up.	15	ALL			D
		Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor.					

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

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

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Small Parcel Sortation System		4-6						m	m1	5120						

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
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ATTACHMENT 5 SPSS MASTER CHECKLIST

09-SPSS-BA-004-M

Operational Maintenance

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Small Parcel Sortation System						n	nm1	5120			Т	our				

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Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
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			(min)			(000)	
SAFETY	1.	WARNING: COMPLY WITH ALL SAFETY	1	ALL			Т
STATEMENT		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.					
		WARNING: 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.					
		WARNING: Various products requiring Safety					
		Data Sheets (SDS) may be utilized during the					
		performance of the procedures in this					
		bulletin. Ensure the current SDS for each					
		product used is on file and available to all					
		employees. When reordering such a product,					
		it is suggested that current SDS be requested.					
		Refer to SDS for appropriate personal					
		protective equipment.					
OPERATIONAL: GENERAL	2.	Monitor Equipment Condition.	5	10			T
OLIVEIVAL		Check Maintenance log book for any outstanding issues.					
		2. Ask operators (facers and sweepers) and					
		operations supervisor if they are aware of					
		any equipment problems. Investigate					
		reported problems.		L			

U.S. Postal Service								IDE	ENTIF	ICAT	ION					
Materian and Object Park	WC	RK			Е	QUIF	MEN	Γ			CLA	SS	N	JMBI	ĒR	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CO	DE				
	0	9	S	Р	S	S					В	Α	0	0	4	M
Equipment Nomenclature	Equ	Equipment Model						Е	Bulletin	File	name		Occurr	ence		
Small Parcel Sortation System							n	nm1	5120			Т	our			

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	s
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req	Lev	Hours	Fed	
			(min)			(000)	
OPERATIONAL: FMPCS SORT	3.	Check FMPCS Sort Controller Computer Maintenance Reports.	5	10			T
CONTROLLER		Run Maintenance Report on All Devices to check for anomalies.					
		Run Condition Report on All Devices to check for anomalies.					
		3. Run Tour Maintenance Long Report to check for reoccurring anomalies, such as Shaft Encoder errors, Index Sensor errors, or Closing Device faults.					
OVIS CABINET:	4.	Check OVIS Controller Computer.	5	10			Т
RACK COMPUTER		CAUTION: Limit the time that the OVIS Rack door is open as there is no filtering of air intake to the rack components while the door is open.					
		Check the OVIS GUI (Graphical User Interface/Homescreen) display status of the system and it's sub-systems during operation.					
		Check that the system indicator icons on the Homescreen are green.					
		2. In the event an icon on the Homescreen is not green, open the View Messages window to obtain additional information about the status or particular error message.					
		3. The OVIS icon on the FMPCS Graphics Display will change color, (green, yellow, orange, red) depending on the OVIS System health status. The graphics screen will display the same error/status message found on the OVIS Message window.					
INDUCT:	5.	Check Induction Stations.	10	09			Т
INDUCTION STATION		Check the Induction Line conveyor belts for damage. Observe proper tracking of belts.					
		Check Dimensioner for debris, clean with a lint free cloth or microfiber glove if necessary.					
		3. Check induction for proper positioning of parcels on carrier cells. All sizes, shapes, and weights should be centered laterally and slightly forward of center longitudinally.					

U.S. Postal Service	IDENTIFICATION															
Maintanana Obsaldiat	_	NRK	EQUIPMENT					•	CLASS			NUMBER		TYPE		
Maintenance Checklist		CODE		ACRONYM						CO		DE				
	0	9	S	Р	S	S					В	Α	0	0	4	М
Equipment Nomenclature	Equipment Model				В	Bulletin Filename				Occurrence						
Small Parcel Sortation System						mm15120				Tour						

Part or	Item	Task Statement and Instruction	Est. Time Req (min)	Min. Skill Lev	Thresholds			
Component	No	(Comply with all current safety precautions)			Run Hours	Pieces Fed (000)	Freq.	
		Note any discrepancies in log book and initiate corrective action.						
SORTER	6.	 Check for proper operation of the trays. Ensure they open completely. Check tray closing operation as the trays pass through the tray closing device brushes, ensure the trays close, and latch properly. 	10	09			Т	