# MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE



# Maintenance Management Order

**SUBJECT:** Single Induction Package Sorter (SIPS)

Preventative Maintenance Guidelines Using

eCBM

TO: All SIPS Sites

PUB NO: MMO-035-23
FILE CODE: See Table 1

**FILE ID:** mm23035

**DATE:** March 6, 2024

**REV LEVEL**: al

This Maintenance Management Order (MMO) provides Operational and Preventive Maintenance Guidelines for the Single Induction Package Sorter (SIPS). This bulletin applies to the Acronyms and Class Codes listed in Table 1.

Table 1. Affected Acronyms, Class Codes, and File Codes

Acronym	Class Code	File Code	Acronym	Class Code	File Code
SIPS	AA	SP1	SIPS	DB	SP1
SIPS	AB	SP1	SIPS	EA	SP1
SIPS	BA	SP1	SIPS	EB	SP1
SIPS	BB	SP1	SIPS	FA	SP1
SIPS	CA	SP1	SIPS	FB	SP1
SIPS	СВ	SP1	SIPS	GA	SP1
SIPS	CC	SP1	SIPS	GB	SP1
SIPS	CD	SP1	SIPS	HA	SP1
SIPS	DA	SP1	SIPS	НВ	SP1

The workhours indicated in the workload estimate (Attachment 1) are based on an 18-hour operations window and reflect the maximum annual workhours required to maintain each system. Actual workhour requirements and the frequency of tasks are dependent on run time and pieces processed. Therefore, PM workhour requirements will vary day-to-day based on site-specific machine utilization. Management may modify task frequencies to address local conditions.

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

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

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

#### 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.

#### 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 Plan (EWP) Personal Electrical Work 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.

Frederick L. Jackson III **Executive Manager** 

Maintenance Technical Support Center

Asset Maintenance Planning, Performance, and Support

- Attachments 1. Summary of Workload Estimate For SIPS System
  - 2. Master Checklist 03-SIPS-XX-001-M SIPS Preventative Maintenance (PM)
  - Master Checklist 09-SIPS-XX-001-M SIPS Operational Maintenance (OM)

### **ATTACHMENT 1**

#### **SUMMARY WORKLOAD ESTIMATE**

#### **FOR SIPS SYSTEM**

Stacker	Routine Servicing	Repair Time	Routine Servicing +	Non- Productive	Total Servicing per	Operation	nal Maintenand Servicing	ce + Total
Modules	per Machine (Hrs/Yr)	per Machine (Hrs/yr) *	Repair Time (Hrs/Yr)	Time per Machine (Hrs/yr) **	Machine (Hrs/Yr)	1 Tour Hrs/Yr OpM x 1	2 Tours Hrs/Yr OpM x 2	3 Tours Hrs/Yr OpM x 3
4	1,356.90	407.07	1,763.97	176.40	1,940.37	2,134.50	2,328.64	2,522.77
5	1,361.86	408.56	1,770.42	177.04	1,947.46	2,141.59	2,335.73	2,529.86
6	1,366.82	410.05	1,776.87	177.69	1,954.56	2,148.69	2,342.83	2,536.96
7	1,371.80	411.54	1,783.34	178.33	1,961.67	2,155.80	2,349.94	2,544.07
8	1,376.76	413.03	1,789.79	178.98	1,968.77	2,162.90	2,357.04	2,551.17
9	1,381.72	414.52	1,796.24	179.62	1,975.86	2,169.99	2,364.13	2,558.26
10	1,386.70	416.01	1,802.71	180.27	1,982.98	2,177.11	2,371.25	2,565.38
11	1,391.66	417.50	1,809.16	180.92	1,990.08	2,184.21	2,378.35	2,572.48
12	1,396.62	418.99	1,815.61	181.56	1,997.17	2,191.30	2,385.44	2,579.57
13	1,401.60	420.48	1,822.08	182.21	2,004.29	2,198.42	2,392.56	2,586.69
14	1,406.56	421.97	1,828.53	182.85	2,011.38	2,205.51	2,399.65	2,593.78
15	1,411.52	423.46	1,834.98	183.50	2,018.48	2,212.61	2,406.75	2,600.88
16	1,416.50	424.95	1,841.45	184.15	2,025.60	2,219.73	2,413.87	2,608.00
17	1,421.46	426.44	1,847.90	184.79	2,032.69	2,226.82	2,420.96	2,615.09
18	1,426.42	427.93	1,854.35	185.44	2,039.79	2,233.92	2,428.06	2,622.19
19	1,431.40	429.42	1,860.82	186.08	2,046.90	2,241.03	2,435.17	2,629.30
20	1,436.36	430.91	1,867.27	186.73	2,054.00	2,248.13	2,442.27	2,636.40
21	1,441.32	432.40	1,873.72	187.37	2,061.09	2,255.22	2,449.36	2,643.49
22	1,446.30	433.89	1,880.19	188.02	2,068.21	2,262.34	2,456.48	2,650.61
23	1,451.26	435.38	1,886.64	188.66	2,075.30	2,269.43	2,463.57	2,657.70
24	1,456.22	436.87	1,893.09	189.31	2,082.40	2,276.53	2,470.67	2,664.80
25	1,461.20	438.36	1,899.56	189.96	2,089.52	2,283.65	2,477.79	2,671.92
	*	Repair mainte	nance estimate	es based on 30%	of preventive ma	aintenance.		

<sup>\*\*</sup> Based on 10% of total PM and repair.

ODERATIONAL MAINTENANCE	One Tour	Two Tours	Three Tours
OPERATIONAL MAINTENANCE	194.13	388.27	582.40

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#### **ATTACHMENT 2**

#### SIPS MASTER CHECKLIST

#### 03-SIPS-XX-001-M

#### PREVENTIVE MAINTENANCE (PM)

Time Total: (###) minutes

U.S. Postal Service								IDE	NTIF	ICATI	ION					
Maintenance Checklist		RK DE			_		MEN NYNC	-				ASS DE	NU	JMBE	ĒR	TYPE
	0	3	S	-	Р	S					Χ	Х	0	0	1	М
Equipment Nomenclature Single Induction Package Sorter			Equi	pmen	t Mod	del					ilename 3000	е			urrend CBM	

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	6
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
SAFETY STATEMENT	1	COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shut down and lock out this machine. Check for suspicious dust or unusual debris. If any unusual substance is found, notify supervisor prior to proceeding with any further action on the equipment.  THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.  When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner or a damp rag must be used in place of compressed or blown air. A lint-free cloth or brush may be used on optical equipment only when other cleaning methods cannot be used. Report safety deficiencies to your supervisor immediately upon detection.  WARNING FOR EWP/PPE: Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO or appropriate EWP PPE and barricade requirements.  WARNING FOR SDS: 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.	1	All			

Tasks marked with one asterisk after the time required are per units tasks
Tasks marked with two asterisks after the item number are critical tasks

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
ENTIRE MACHINE: SHUTDOWN	2**	Power Down And Lock Out Power. (Power Off)	10	07	0.5	0.5	
		Power down and lock out power as prescribed by the current local lockout instructions providing lockout/restore procedures by a SIPS trained employee.					
ENTIRE MACHINE: MAIL SEARCH	3**	Mail Search on Entire SIPS Machine (Power Off)	45	07	0.5	0.5	
		Using the recommended walk sequence as listed below; perform the mail search of the following areas.					
		a. IND-1: Induct Module					
		b. DWS-1: Dimension, Weigh, Scan Module					
		c. DWS-2: Dimension, Weigh, Scan Module 2					
		d. IFS-1: Incline Feed System Conveyor					
		e. IFS-2: Curve (If installed)					
		f. SRT-1: Idle Module					
		g. SRT-1: Sort Modules					
		h. SRT-1: Drive Module					
		i. SRT-1: End Chute					
		For each area list above, remove covers and panels as necessary.					
		3. Search for mailpieces.					
		4. Report visible conveyor belt damage.					
		5. Replace all covers and panels.					
		6. Check that all equipment guards are in place.					
		7. Return all mail found during mail search to the proper mail path.					
SORT SERVER	4	Clean and Check OCR Computer (Power Off)	10	07	546	1365	
CART: OCR COMPUTER		Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from the OCR computer vents.					
		2. Check that all cable connections are fully inserted in their sockets on the back of the computer chassis and securing screws are finger tight on said cables if present.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	5
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Note any deficiencies and generate a work order/report them to supervisor.					
SORT SERVER CART: SORT	5	Clean and Check Sort Server Cart and Computer (Power Off)	10	07	546	1365	
SERVER		Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from the OCR computer vents.					
		Check that all cable connections are fully inserted in their sockets on the back of the computer chassis and securing screws are finger tight on said cables if present.					
		Note any deficiencies and generate a work order/report them to supervisor.					
IND-1: BEARINGS	6**	Grease Shaft Bearings (Power Off)	20	07	1092	2730	
		CAUTION					
		Discard all hazardous materials (both regulated and non-regulated waste), in accordance with all local and national environmental policies.					
		1. Lubricate the sprocket shaft bearings, on both sides, with a grease gun and Mobil FM102 grease or equivalent. If the bearings are sealed, take care not to over lubricate the bearing.					
		Clean exposed grease from bearing, fitting, and shaft with locally approved cloths.					
		<ol><li>Check that all mounting hardware and securing set screws are tight.</li></ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
IND-1: BELT	7**	Check Belt Elongation (Power Off)	10	07	546	1365	
		Use measuring tape to measure across 4 flights or 3 belt pocket assemblies.					
		a. Check the measured length is less than or equal to 100.25-inches.					
		b. If the measured length is more than 100.25-inches and less than 101.25-inches, order new belt and schedule belt replacement task.					
		c. If the measure length is greater than 101.25-inches, replace the IND-1 belt.					

Part or	Item		Task Statement and Instruction	Est.	Min.		resholds	S
Component	No		(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq
		2.	Note any deficiencies and generate a work order/report them to supervisor.					
IND-1: CARRY- WAY	8**		an and Check Induct Belt and Carry-Way wer Off)	40	07	545	1365	
		1.	Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from top of IND-1 remove any dust and debris from space around belt rollers and all belt features (flights, rollers, etc.), observing deficiencies if present. Rotate belt by hand as needed to access entire length.					
		2.	Check Idle End Sprockets teeth are visible through the belting.					
		3.	Check that all sprockets' teeth maintain a minimum of 1/16-inch wide and 1/8-inch long flat surface on their tips. Belt may be moved to allow view of all sprocket teeth.					
		4.	Use a damp cloth to clean the top surface of the belt. Rotate belt by hand as needed to access entire length.					
		5.	Insert securing screwdrivers/T-handle hex wrenches in both ends of the carry-way.					
		6.	Open belt and clean the carry-way surface.					
		7.	Check the following:					
			The static suppression sheet metal for rust, dents, or holes.					
			b. The UHMW Plastic guide securing screws are fully inserted and snug. Avoid overtightening as it may damage or distort the guide(s).					
			c. The condition of UHMW Plastic edge guides making sure they are not worn to the point of exposing their securing screws to the belting.					
			d. The condition of the UHMW Plastic drive wear strips making sure they are not worn to the point of exposing their securing screws to the belting.					
			e. The Nose Roller Nylon guides securing screws are fully inserted and snug. Avoid overtightening as it may damage or distort the guide(s).					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	
			Req (min)	Lev	Hours	Fed	
		f. The thickness of the Nose Roller Nylon	(111111)			(000)	
		guides are not worn to the point of					
		exposing their securing screws to the					
		belting					
		8. Reconnect belting making sure the pins are in as good as new condition or replace them					
		with new pins ensuring that they reach all the					
		way across the belt.					
		Remove any screwdrivers/T-handle hex wrenches used to secure the belting for					
		opening.					
		10. Note any deficiencies and generate a work					
		order/report them to supervisor.					
IND-1: GEAR	9**	Check Gear Motor (Power Off)	15	07	1092	2730	
MOTOR		CAUTION					
		Discard all hazardous materials (both regulated					
		and non-regulated waste), in accordance with all local and national environmental policies.					
		1. Check the motor gear case for leaking seals.					
		2. Remove any oily buildup from the machine					
		and\or motor gearbox with locally approved oil absorbent cloth and cleaner.					
		3. Use a HEPA vacuum cleaner to clean					
		accumulated dirt, dust, or debris from the breather on the gear case.					
		Ensure all hardware is tight.					
		Note any deficiencies and generate a work					
		order/report them to supervisor.					
IND-1: RETURN-	10**	Clean Induct Belt and Return-way (Power Off)	40	07	182	455	
WAY		<ol> <li>Remove larger lower windows from the sides of conveyor and lower plywood panels.</li> </ol>					
		2. Remove debris and loose mail.					
		3. Use a HEPA vacuum cleaner to clean Return-					
		way, inside of belting, and tension roller assemblies.					
		4. Check:					
		<ul> <li>Belting on the inside/underside for grooves, cracked or missing links.</li> </ul>					
		b. Tension arm rollers spin freely, with no					
		missing or broken spokes, perimeters are solid with no missing chunks.					

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	5
Component	No		(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
				(min)	Lev	Hours	Fed (000)	
			c. Tension Assemblies for smooth travel of swingarm, rollers turn freely.					
			d. Support cables to make sure they are intact and attached.					
			e. Return Idle rollers spin freely, have a solid perimeter surface and no missing or broken spokes.					
			f. Drive sprockets' teeth maintain a minimum of 1/16th inch wide and 1/8th inch long flat surface on their tips.					
		5.	Replace panels.					
		6.	Return mail to proper path.					
		7.	Note any deficiencies and generate a work order/report them to supervisor.					
IND-1: SENSOR(S)	11	Cle	ean Sensors (Power Off)	15	07	0.5	0.5	
		1.	Clean Over-Height and Pre-Cognition sensors.					
			<ul> <li>Remove Left or Right DWS-1 window to gain access to the Pre-Cognition Sensor emitter and receiver.</li> </ul>					
			b. Use a HEPA vacuum cleaner to vacuum excess dust if required.					
			c. Mist a dry lint-free towel with water, and wipe until clean.					
		2.	Replace removed panel.					
		3.	Note any deficiencies (scratched/cracked or broken lenses) and generate a work order/report them to supervisor.					
IND-1: TENSION	12**	Ch	eck Tension Assemblies (Power Off)	25	07	546	1365	
ASSEMBLIES		1.	Remove IND-1- large lower windows on 1 side and check tensioning assemblies are in good working order and free of debris.					
		2.	Check the following:					
			Tension Swingarms travel without any binding.					
			b. Cables for the swing arms are intact and attached properly.					
			c. Return and Tension rollers have a solid perimeter surface and no missing or broken spokes.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	,
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	
·			Req	Lev	Hours	Fed	
			(min)			(000)	
		d. All tension rollers are riding on the belt and not the belt rollers. (They will					
		maintain a 4 inch on center spacing.)					
		e. Return-way rollers are missing/not hitting					
		the flights and/or the belt rollers. (They					
		will maintain a 10 inch on center spacing,)					
		f. Check all hardware is tight.					
		Replace lower windows.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
DWS-1/BUFFER:	13**	Clean Buffer Conveyor (Power Off)	20	07	182	455	
BELT		Remove left or right window from DWS-1 the gain access to the belt.					
		Clean belt of all debris. Rotate belt as needed to clean the entire belt.					
		Observe conveyor belt for conditions requiring replacement:					
		a. Slick belt surface.					
		b. Belt splice separation. (Any belt splice separation will require complete belt replacement due to proximity of trigger photo eyes.)					
		c. Nicks, tears, abrasions, and fraying.					
		Replace removed panel.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
DWS-1/BUFFER: DRIVE BELT	14**	Check Gear motor, Drive Belt and Pulleys (Power Off)	45	07	2184	5460	
		CAUTION					
		Discard all hazardous materials (both regulated and non-regulated waste), in accordance with all local and national environmental policies.					
		Remove Plexiglass/Lexan panel from the right side of DWS-1.					
		Remove Emergency Stop Pullcord offset bracket from DWS-1					
		Remove Shaft End Guard #1 from right side between IND-1 and DWS-1.					
		Remove Lower Right View tunnel guard/support from DWS-1.					
		<u> </u>			l	l	Ĭ

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	5
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
		5. Check the motor gear case for oil leaking					
		around seals.					
		<ol><li>Remove any oily buildup from the machine, motor, and gearbox with locally approved oil absorbent cloth and cleaner.</li></ol>					
		<ol> <li>Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from the motor, gearbox, and its breather (if present).</li> </ol>					
		<ol> <li>Remove belt covers and check that the belt and pulleys do not contact belt cover or frame.</li> </ol>					
		Loosen belt tension assembly.					
		10. Remove Belt.					
		11. Replace belt. (NSN 3030-18-000-7702)					
		12. Tension Belt.					
		13. Tighten belt tension assembly.					
		<ol> <li>Apply pressure from the bottom side of the belt. Ideal deflection is between 1/16 – 1/8 inch.</li> </ol>					
		15. Re-Tension belt if needed.					
		<ol> <li>Check condition of belt and pulleys, looking for fraying, worn/missing teeth/cogs, signs of being out of alignment.</li> </ol>					
		<ol> <li>Replace all brackets, covers, guards, panels, and supports.</li> </ol>					
		<ol> <li>Check that E-Stop Pullcord works by tripping and resetting making sure it latches in the reset position.</li> </ol>					
		19. Check all hardware is tight.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
DWS-1: MCP	15	Clean and Check Main Control Panel (MCP) Power Off)	10	07	546	1365	
		<ol> <li>Check all control hardware is securely mounted inside the MCP.</li> </ol>					
		<ol><li>Confirm all wires are secured in their terminals.</li></ol>					
		<ol> <li>Use a HEPA vacuum cleaner to clean surfaces of components installed in the MCP cabinet.</li> </ol>					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	5
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
DWS-1: SENSOR(S)	16	Clean Dimensioning and Height Tower Arrays (Power Off)	15	07	0.5	0.5	
		<ol> <li>Clean/Clear DWS.DIM.H, DWS.DIM.W, and Height Tower arrays of any dust or debris, paying special attention to the width array mounted below the transition of DWS-1 to DWS-2.</li> </ol>					
		Use a HEPA vacuum cleaner to clean sensors with non-abrasive attachment if required.					
		Wipe all emitters and receivers with lint- free towel to remove dust or debris.					
		<ul> <li>Use a spray bottle containing tap water or non-abrasive, non-corrosive and plastic safe, locally approved cleaner to lightly mist cloth for wiping away stubborn smudges.</li> </ul>					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
DWS-2/SCALE:	17**	Clean Scale Conveyor Belt (Power Off)	15	07	546	1365	
BELT		Clean belt of all debris. Rotate belt as needed to clean entire belt.					
		Remove product debris between load cell and weighing belt if necessary.					
		Check conveyor belt for conditions requiring replacement:					
		a. Slick belt surface.					
		<ul> <li>Belt splice separation. (Any belt splice separation will require complete belt replacement due to proximity of trigger photo eyes.)</li> </ul>					
		c. Nicks, tears, abrasions, and fraying.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
DWS-2/SCALE: CONTROL PANEL	18	Clean and Check Scale Control Panel (Power Off)	20	07	546	1365	
	_	Confirm all control hardware is securely mounted inside Scale Control Panel.				_	

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No		Time	Skill	Run	Pieces	
			Req	Lev	Hours	Fed	'
			(min)			(000)	
		Confirm all wires are secured in their terminals.					
		Use a HEPA vacuum cleaner to clean surfaces of components installed in the Scale Control Panel cabinet.					
		Note any deficiencies and generate a work order/report them to supervisor.					
DWS-2/SCALE: DRIVE BELT	19**	Check Drive Belt Tension and Alignment (Power Off)	15	07	546	1365	
		Remove belt covers and check that the belt and pulleys do not contact belt covers or frame.					
		Check for worn or missing teeth, or wear on one side of belt or pulleys indicating side loading due to improper pulley alignment.					
		<ol> <li>Apply pressure from the bottom/non-tensioner side of the belt. Ideal deflection is between 1/16 – 1/8 inch.</li> </ol>					
		Adjust tension to achieve ideal deflection of 1/16 - 1/8-inch.					
		5. Check all Hardware is tight.					
		Reinstall removed belt covers.					
		Note any deficiencies and generate a work order/report them to supervisor.					
DWS-2/SCALE:	20**	Check Motor (Power Off)	10	07	546	1365	
GEAR MOTOR		CAUTION					
		Discard all hazardous materials (both regulated and Check the motor gear case for oil leaking around seals.					
		Check the motor gear case for oil leaking around seals.					
		<ol> <li>Remove any oily buildup from the machine and\or motor gearbox with locally approved oil absorbent cloth and cleaner.</li> </ol>					
		Check all hardware is tight.					
		Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from the breather on the gear case.					
		Note any deficiencies and generate a work order/report them to supervisor.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	s
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
DWS-2: VITRONIC	21	Clean and Check Vitronic VDU Computer	15	07	1092	2730	
VDU COMPUTER		(Power Off)					
		Confirm all cable connections are fully inserted in their sockets on the bottom of the computer chassis and securing screws are finger tight on said cables if present.					
		Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from the Vitronic VDU chassis and its vents.					
		Note any deficiencies and generate a work order/report them to supervisor.					
DWS-2: VITRONIC CAMERA	22**	Clean Overhead Camera Clear Cover (Power Off)	15	07	546	1365	
		CAUTION					
		The glass used in this system is fragile enough to break if pressure is applied.					
		CAUTION					
		Do not lean or stand on the Scan Conveyor. Applying additional weight to the Scale Conveyor may damage the scale.					
		NOTE					
		Do not spray the equipment. Only a misting on 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.					
		Note any deficiencies and generate a work order/report them to supervisor.					
DWS-2/SCALE:	23	Clean Sensors (Power Off)	3	07	0.5	0.5	
SENSOR(S)		Clean Product Jam Sensor emitter and receiver.					
		Use a HEPA vacuum cleaner to vacuum dust if required.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	 S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
		<ul> <li>b. Use a spray bottle containing tap water or non-abrasive, non-corrosive and plastic safe, locally approved cleaner to lightly mist cloth for wiping away stubborn smudges.</li> <li>2. Note any deficiencies (scratched/cracked or broken language) and generate a work</li> </ul>				(888)	
		broken lenses) and generate a work order/report them to supervisor.					
IFS-1/INCLINE: BEARINGS	24**	Clean and Check Rollers and Bearings (Power Off)	20	07	546	1365	
		Remove covers or panels as required.					
		<ol> <li>Loosen tension on belting at tensioning footballs ensuring securing screws and pins are loose on both sides before doing so.</li> </ol>					
		<ol><li>Check the drive roller is secure and has no abnormal bearing movement.</li></ol>					
		<ol> <li>Check belt idle rollers are secure, free of debris, spin freely, and have no abnormal bearing movement.</li> </ol>					
		5. Re-tension belting.					
		<ol><li>Secure tensioning footballs with removed pins and bolts.</li></ol>					
		7. Reinstall any removed covers or panels.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
IFS-1/INCLINE: BEARINGS	25**	Grease Shaft Bearings (Power Off)	15	07	1092	2730	
BEARINGS		CAUTION					
		Discard all hazardous materials (both regulated and non-regulated waste), in accordance with all local and national environmental policies.					
		<ol> <li>Lubricate the sprocket shaft bearings, on both sides, with a grease gun and Mobil FM102 grease or equivalent. If the bearings are sealed, take care not to over lubricate the bearing.</li> </ol>					
		<ol><li>Clean exposed grease from bearing, fitting, and shaft with locally approved cloths.</li></ol>					
		<ol><li>Check that all mounting hardware and securing set screws are tight.</li></ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
IFS-1/INCLINE:	26**	Clean Belt (Power Off)	20	07	546	1365	
BELT		Clean topside of belt of all debris.					
		Check conveyor belt for conditions requiring replacement:					
		a. Slick belt surface.					
		<ul> <li>b. Belt splice separation. (Greater than 1/2-inch separation on the edges or greater than 1.5-inch separation in the center part of belt requires belt replacement.)</li> </ul>					
		c. Nicks, tears, abrasions, and fraying. (Any damage that can flap away from belt more than 1/4-inch requires belt replacement.)					
		Note any deficiencies and generate a work order/report them to supervisor.					
IFS-1/INCLINE: CHAIN	27**	Check Chain Tension and Alignment (Power Off)	15	07	546	1365	
		Remove chain safety cover.					
		Check that chain does not contact chain cover or frame.					
		Check sprocket for signs of wear such as cracks, worn or missing teeth, or signs of wear on one side indicating side loading due to improper sprocket alignment.					
		4. Apply pressure from the bottom side of the chain. Ideal deflection is between 3/16 - 1/4 inch.					
		5. Tension chain if needed.					
		6. Check all hardware is tight.					
		7. Reinstall any removed cover.					
		Note any deficiencies and generate a work order/report them to supervisor.					
IFS-1/INCLINE:	28**	Oil Chain and Sprockets (Power Off)	20	07	546	1365	
CHAIN		CAUTION					
		Discard all oil-soaked materials in accordance with all local and national environmental policies.					
		1. Remove chain cover.					
		Lubricate with 30 weight, non-detergent, synthetic oil or equivalent as needed.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)	LCV	Hours	Fed (000)	
		3. Clean dripping oil from chain and sprocket.					
		4. Reinstall removed chain cover.					
		<ol><li>Note any deficiencies and generate a work order/report to the supervisor.</li></ol>					
IFS-1/INCLINE:	29**	Check Motor (Power Off)	10	07	1092	2730	
GEAR MOTOR		CAUTION					
		Discard all hazardous materials (both regulated and non-regulated waste), in accordance with all local and national environmental policies.					
		<ol> <li>Check the motor gear case for oil leaking around seals.</li> </ol>					
		<ol><li>Remove any oily buildup from the machine and\or motor gearbox with locally approved oil absorbent cloth and cleaner.</li></ol>					
		3. Check all hardware is tight.					
		<ol> <li>Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from the breather on the gear case.</li> </ol>					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
IFS-2/CURVE: BEARINGS	30**	Clean and Check Rollers and Bearings (Power Off)	20	07	1092	2730	
		1. Remove covers or panels as required.					
		2. Remove drive belt.					
		3. Check:					
		<ul> <li>That the drive roller and the motor roller show no signs of wear on one side of roller or that the belt is riding off one side of roller indicating misalignment.</li> </ul>					
		<ul> <li>All rollers are secure, free of debris, spin freely, and have no abnormal movement.</li> </ul>					
		<ul> <li>All bearings are secure, free of debris, spin freely, and have no abnormal movement.</li> </ul>					
		4. Re-install drive belt.					
		5. Re-tension drive belt.					
		6. Reinstall any removed covers or panels.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	6
Component	No	(Cor	mply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
				Req (min)	Lev	Hours	Fed (000)	
IFS-2/CURVE:	31**	Grease	Shaft Bearings (Power Off)	20	07	546	1365	
BEARINGS			CAUTION					
		and no	d all hazardous materials (both regulated n-regulated waste), in accordance with I and national environmental policies.					
		side grea sea	oricate the sprocket shaft bearings, on both es, with a grease gun and Mobil FM102 ase or equivalent. If the bearings are led, take care not to over lubricate the oring.					
			an exposed grease from bearing, fitting, I shaft with locally approved cloths.					
			eck that all mounting hardware and uring set screws are tight.					
			e any deficiencies and generate a work er/report them to supervisor.					
IFS-2/CURVE:	32**	Clean E	Belt, Rollers, and Bearings (Power Off)	30	07	1092	2730	
BELT		1. Ren	move covers or panels as required.					
		2. Loo	sen and disengage the drive belt.					
			an belt, rollers, and bearings of all debris. I belt as needed.					
			serve conveyor belt for conditions requiring lacement:					
		a.	Slick belt surface.					
			Belt splice separation. (Greater than 1/2-inch separation on the edges or greater than 1.5-inch separation in the center part of belt requires belt replacement.)					
			Nicks, tears, abrasions, and fraying. (Any damage that can flap away from belt more than 1/4-inch requires belt replacement.)					
		5. Che	eck that all rollers and pulleys turn free.					
		6. Rep	place drive belt and properly tension it.					
		7. Che	eck all hardware is tight.					
		8. Reii	nstall any removed covers or panels.					
			e any deficiencies and generate a work er/report them to supervisor.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)	LEV	Hours	Fed (000)	
IFS-2/CURVE: BELT CHAIN	33**	Check Flow Turn Chain Tension, Chain Slack and Grease as needed (Power Off)	40	07	1092	2730	
		NOTE					
		This task requires two people. Time is doubled for staffing purposes. Outside rail and chain cover removal and replacement are two person steps.					
		Remove covers or panels as required.					
		Check sprockets for signs of wear such as cracks, worn or missing teeth, or signs of wear on one side indicating side loading due to improper sprocket alignment.					
		<ol> <li>Check chain slack on the bottom of the sprocket on the discharge end of the curve. Ideal Chain slack will be within 3/16-3/8 inch.</li> </ol>					
		<ol> <li>Using a grease gun with grease, lubricate sprocket shaft bearings on both sides as needed. Do not over lubricate. These May Be sealed bearings. Use Mobil grease FM102 grease or equivalent as needed.</li> </ol>					
		5. Lubricate upper chain guides with Lubriplate #3000 grease or equivalent as needed.					
		Clean exposed grease from bearings, guards, guides, and machine.					
		7. Reinstall any removed covers or panels.					
		Note any deficiencies and generate a work order/report them to supervisor.					
IFS-2/CURVE: DRIVE BELT	34**	Check Drive Belt Tension and Alignment (Power Off)	20	07	1092	2730	
		Remove belt cover and check that the belt and pulleys do not contact belt cover or frame.					
		Check pulley alignment with a straight edge on the side of pulleys.					
		3. Check for worn or missing teeth, or signs of wear on one side of pulley or belt indicating side loading due to improper pulley alignment.					
		4. Apply pressure from the bottom side of the belt. Ideal deflection is between 3/16 – 3/8 inch.					
		5. Adjust tension as needed to achieve the 3/16-3/8th inch deflection.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces Fed	Freq.
			(min)	LUV	Hours	(000)	
		6. Check all Hardware is tight.					
		7. Reinstall removed belt cover.					
		Note any deficiencies and generate a work order/report them to supervisor.					
IFS-2/CURVE:	35**	Check Motor (Power Off)	15	07	1092	2730	
GEAR MOTOR		CAUTION					
		Discard all hazardous materials (both regulated and non-regulated waste), in accordance with all local and national environmental policies.					
		Check the motor gear case for leaking seals.					
		<ol><li>Remove any oily buildup from the machine and/or motor gearbox with locally approved oil absorbent cloth and cleaner.</li></ol>					
		3. Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from the breather on the gear case and the outside of all the drive motor cooling fan covers.					
		4. Check all hardware is tight.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
IFS-2/CURVE:	36	Clean Sensors (Power Off)	10	07	0.5	0.5	
SENSOR(S)		Clean IFS-2 Tail End Sensor (IFS2-TES) emitter and receiver.					
		Use a HEPA vacuum cleaner to vacuum excess dust if required.					
		b. Use a spray bottle containing tap water or non-abrasive, non-corrosive and plastic safe, locally approved cleaner to lightly mist cloth for wiping away stubborn smudges.					
		Note any deficiencies (scratched/cracked or broken lenses) and generate a work order/report them to supervisor.					
AIR TREATMENT ASSEMBLY:	37**	Check Air Pressure Regulator Filter (Power Off).	15	07	42	105	
FILTER		CAUTION					
		Discard all hazardous materials (both regulated and non-regulated waste), in accordance with all local and national environmental policies.					
		1. Turn Air Cut-Off valve off.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Remove Filter Bowl/Reservoir.				(222)	
		Confirm Filter and bowl do not contain any dirt, oil, rust, or water.					
		Drain and clean bowl if contaminants are present.					
		Replace filter if dirt, oil, rust, or water coat filter.					
		6. Replace Filter Bowl/Reservoir.					
		Check Air Cut-Off valve silencer for oil or moisture build-up. Replace Silencer if found.					
		Check Air Dump valve silencer for oil or moisture build-up. Replace Silencer if found.					
		9. Turn Air Cut-Off valve on.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/IDLE: AIR CYLINDERS	38**	Check All Air Cylinders, Clevis Pins and Pin Clips (Power Off)	20	07	1092	2730	
		Remove both clear Return-way inspection covers from the right side of SRT-1 Idle/Tail End.					
		Check air lines for brittle conditions.					
		<ol> <li>Check air lines for length so there is enough slack so not pulling on connections and replace if found.</li> </ol>					
		<ol> <li>Check ALL air cylinders (7 In total) underneath sorter for worn/missing clevises, clevis pins and clips (14 locations).</li> </ol>					
		5. Replace all covers.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
SRT-1/IDLE:	39**	Grease Shaft Bearings (Power Off)	15	07	1092	2730	
BEARINGS		CAUTION					
		Discard all hazardous materials (both regulated and non-regulated waste), in accordance with all local and national environmental policies.					
		Lubricate the sprocket shaft bearings, on both sides, with a grease gun and Mobil FM102 grease or equivalent. If the bearings are sealed, take care not to over lubricate the bearing.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	2
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	1
<b>3</b> 5 <b>3</b> 5 5 5		(00	Req	Lev	Hours	Fed	i ieq.
			(min)			(000)	
		Clean exposed grease from bearing, fitting,					
		and shaft with locally approved cloths.					
		<ol><li>Check that all mounting hardware and securing set screws are tight.</li></ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/IDLE: BELT	40**	Clean Belt (Power Off)	15	07	1092	2730	
		Remove any dust and debris from space around belt, its traverse rollers and other belt features.					
		Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from topside of belt and exterior of SRT-1 Idle Module.					
		Use a damp cloth to clean the top surface of the belt.					
		Ensure all belt-connecting pins are fully installed.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
SRT-1/IDLE: BELT DISENGAGEMENT	41**	Check Belt Disengagement from sprocket and Rack-and-Roll Homing. (Power Off)	15	07	546	1365	
		At SRT-1 Tail/Idle End, check all belt rollers are in place and are not showing cut, nicked, or missing outer rubber coating.					
		Run hand over roller belt, make sure belt rollers do not contact sprocket and all rollers spin freely.					
		<ol> <li>Run hand over roller belt, make sure belt rollers do not contact carry-way or Rack-N- Roll rollers and spin freely.</li> </ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/IDLE: RACK- N-ROLL	42**	Clean and Check All Rack-N-Roll Rollers. (Power Off)	20	07	1092	2730	
		NOTE					
		This task requires two people. Time is doubled for staffing purposes. Opening and closing of the SRT-1 S7000 belt are two person steps.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		<ol> <li>Insert an appropriately sized screwdriver/T- handle hex wrench through two belt locking holes near both Drive end and Idle end sprockets. This secures carry-way belt after being opened and does not allow gravity to pull belt into return-way.</li> </ol>					
		<ol><li>Split the belt at center of the SRT-1/IDLE module.</li></ol>					
		3. While the belt is split, check all Rack-N-Roll roller assemblies for wear with Go-No-Go gauge NSN 5220-19-000-2795. (Roller diameter can be checked with the end of the gauge while the roller axle wear can be checked by placing the edge of the tool horizontally across the belt rollers and measuring that a clearance between the tool and the belt frame around the rollers is 1/16th inch or more.					
		<ol> <li>Check all Rack-N-Roll roller assemblies for damage such as cut, nicked, or missing outer rubber coating.</li> </ol>					
		5. Make sure all Rack-N-Roll rollers spin freely.					
		6. Use a pick tool and a HEPA vacuum to clean around all rollers and roller assemblies.					
		7. Check that sprockets are aligned with belting, evenly spaced, and not worn.					
		8. Measure edge of S7000 roller belt and belt supporting edge of UHMW plastic Carry-way belt support guides for wear. (If greater than 1/16-inch wear is present on either part that part will be scheduled for replacement.)					
		<ol><li>Reconnect all belting making sure pins are inserted fully.</li></ol>					
		<ol> <li>Remove securing screwdrivers/T-handle hex wrenches from belting.</li> </ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/IDLE: RETURN-WAY	43**	Clean and Check Surfaces and Interior of SRT- 1 Idle/Tail End (Power Off)	20	07	546	1365	
		<ol> <li>Remove conveyor under-guarding as required to allow view of SRT-1 Idle End return-way.</li> </ol>					
		2. Clean under side of SRT-1 Idle End.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	 S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
		Gather loose mail and return to proper mail	. ,			(-55)	
		path.					
		Check all pins are fully installed in the belts.					
		<ol> <li>Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from interior of Return-Way.</li> </ol>					
		Check return rollers turn freely (may require lifting belt sections off return-way rollers to check) and are evenly spaced.					
		7. Reinstall any removed conveyor guarding.					
		Note any deficiencies and generate a work order/report them to supervisor.					
SRT-1/IDLE:	44	Clean Sensors (Power Off)	15	07	0.5	0.5	
SENSOR(S)		Clean the following sensors:  Tail End Sensor (SRT1.TES.E/R)					
		Belt Disengagement Sensor (SRT1.BDS.E/R)					
		Trash Sensor (SRT1.TRS.E/R).					
		Use a HEPA vacuum cleaner to vacuum if required.					
		Spray lint-free towel with locally approved plastic safe cleaner (water), and wipe until clean.					
		Note any deficiencies (scratched/cracked or broken lenses) and generate a work order/report them to supervisor.					
SRT-1/SORT MODULE: AIR	45**	Check All Air Cylinders Clevis Pins (Power Off)	30*	07	1092	2730	
CYLINDERS		Remove all clear Return-way inspection covers from the right side of SRT-1 Idle/Sort Module, 6 in total.					
		Check air lines for brittle conditions or inadequate length causing pulling on connections and replace if found.					
		Check <b>ALL</b> air cylinders underneath sorter for worn/missing clevises, clevis pins and clips. (44 locations)					
		Replace all covers.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
		Note: Time is per module, each Sort Module	, ,			(555)	
		contains 8 runout chutes, 4 on each side.					
SRT-1/SORT MODULE: BELT	46**	Check Catenary Sag (Power Off)	5	07	546	1365	
MODULE. BELT		NOTE					
		An even number of belt links must be removed to maintain lateral stability (Brick pattern).					
		<ol> <li>Check for catenary sag at first SRT-1 output module.</li> </ol>					
		<ol><li>Ideal sag will be between 1 and 2.5-inches from the top of the catenary sag slot. Belt will be visible in monitoring slot.</li></ol>					
		3. If sag is greater than 2.5-inches, then removal of 2 belt sections is recommended.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/SORT MODULE: BELT	47**	Check S7000 Belt for Elongation/Stretch (Power Off)	10	07	1092	2730	
		<ol> <li>Count the rows of belt sections in a Sort Module.</li> </ol>					
		<ul> <li>a. If count is greater than 27 nothing needs to be done.</li> </ul>					
		<ul> <li>If less than 27 but greater than 26.5 it is recommended to purchase belting and prepare for replacement.</li> </ul>					
		<ul> <li>If 26.5 or fewer sections counted immediate belt replacement is recommended.</li> </ul>					
		<ol><li>Make note in logbook of the number of sections in a module and date checked.</li></ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/SORT	48**	Clean Belt (Power Off)	10*	07	1092	2730	
MODULE: BELT		<ol> <li>Remove any dust and debris from space around belt, its traverse rollers and other belt features.</li> </ol>					
		<ol><li>Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from exterior of SRT-1.</li></ol>					
		<ol><li>Use a damp cloth to clean the top surface of the belt.</li></ol>					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Ensure all belt-connecting pins are fully installed.					
		Note: Time is per module, each Sort Module contains 8 runout chutes, 4 on each side.					
SRT-1/SORT	49**	Clean/Check Chute Belts (Power Off)	20*	07	2184	5460	
MODULE: CHUTE BELTS		Use a HEPA vacuum cleaner to clean top and underside of chute belting.					
		Use a pick tool to clean build up from around rollers.					
		Use a HEPA vacuum cleaner to vacuum/wipe chute under roller belt.					
		4. Verify that all rollers:					
		a. Roll freely.					
		b. Do not wobble on pin.					
		c. Are not showing cut, nicked, or missing outer rubber coating.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
		Note: Time is per module, each Sort Module contains 4 belted runout chutes, 2 belted runout chutes on each side.					
SRT-1/SORT	50**	Check All Rack-N-Roll Assemblies (Power Off)	10*	07	1092	2730	
MODULE: RACK-N- ROLL		At sort modules, run hand over roller belt, make sure roller belt does not contact carry- way rollers and spins freely.					
		2. Check all S7000 belt roller assemblies for wear with Go-No-Go gauge NSN 5220-19-000-2795. (Roller diameter can be checked with the end of the gauge while the roller axle wear can be checked by placing the edge of the tool horizontally across the belt rollers and measuring that a clearance between the tool and the belt frame around the rollers is 1/16th inch or more.					
		<ol> <li>Check all carrier rollers are in place and are not showing cut, nicked, or missing outer rubber coating.</li> </ol>					
		Note any deficiencies and generate a work order/report them to supervisor.					

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	5
Component	No		(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
				Req (min)	Lev	Hours	Fed (000)	
			te: Time is per module, each Sort Module				(===)	
		cor	ntains 8 runout chutes, 4 chutes on each					
SRT-1/SORT	51**	_	eck All Rack-N-Roll Rollers. (Power Off)	15*	07	1092	2730	
MODULE: RACK-N-	01	011	NOTE	13	01	1032	2730	
ROLL		Thi	s task requires two people. Time is doubled					
		for	staffing purposes. Opening and closing of SRT-1 S7000 belt are two person steps.					
		1.	Insert an appropriately sized screwdriver/T-handle hex wrench through two belt locking holes near both Drive end and Idle end sprockets. This secures carry-way belt after being opened and does not allow gravity to pull belt into return-way.					
		2.	Starting at first Sort Module, split the belt at center of the Sort Module.					
		3.	While the belt is split, check all Rack-N-Roll rollers are in place and are not showing cut, nicked, or missing outer rubber coating.					
		4.	Check all Rack-N-Roll roller assemblies for wear with Go-No-Go gauge NSN 5220-19-000-2795. (Roller diameter can be checked with the end of the gauge while the roller axle wear can be checked by placing the edge of the tool horizontally across the rollers and measuring that a clearance between the tool and the frame around the rollers is 3/16th inch or more.					
		5.	Make sure all rollers spin freely.					
		6.	Use a pick tool and a HEPA vacuum to clean around all rollers and roller assemblies.					
		7.	The belt will need to be split at the center point of each Sort Module to access all the Rack-N-Roll assemblies.					
		8.	Measure edge of S7000 roller belt and belt supporting edge of UHMW plastic Carry-way belt support guides for wear. (If greater than 1/16-inch wear is present on either part that part will be scheduled for replacement.)					
		9.	Break belting at center of next Sort Module and reconnect belting at current module making sure the pin is inserted fully.					
		10.	Repeat Steps 3-9 for each Sort Module in the machine.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	
			Req (min)	Lev	Hours	Fed (000)	
		Reconnect all belting making sure pins are inserted fully.					
		12. Remove securing screwdrivers/T-handle hex wrenches from belting.					
		13. Note any deficiencies and generate a work order/report them to supervisor.					
		Note: Time is per module, each Sort Module contains 8 runout chutes, 4 chutes on each side.					
SRT-1/SORT MODULE:	52**	Clean and Check Surfaces and Interior of SRT-1 (Power Off).	20*	07	546	1365	
RETURN-WAY		Remove conveyor under-guarding as required to allow view of return-ways.					
		2. Clean under side of SRT-1.					
		Gather loose mail and return to proper mail path.					
		4. Check all pins are fully installed in the belts.					
		<ol> <li>Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from interior of Return-Way.</li> </ol>					
		<ol><li>Check return rollers turn freely (may require lifting belt sections off return-way rollers to check) and are evenly spaced.</li></ol>					
		7. Reinstall any removed conveyor guarding.					
		8. Repeat Steps 1-7 for each Sort Module.					
		Note any deficiencies and generate a work order/report them to supervisor.					
		Note: Time is per module, each Sort Module contains 8 runout chutes, 4 chutes on each side.					
SRT1/SORT MODULE: TAKE-	53**	Check take-up roller tension. (136 Bin or Longer Machines Only) (Power Off)	15	07	546	1365	
UP ROLLER		NOTE					
		For machines equipped with the Take-up Roller Assembly, check SRT-1 belt tension at the Take-up Roller Assembly and ignore catenary sag.					
		Locate the Take-Up Roller assembly under the Main Sort Conveyor near the Drive End.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	6
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	
			Req	Lev	Hours	Fed	
		0. 0. 1. 7. 1. 1. D. II	(min)			(000)	
		<ol><li>Check Take-Up Roller position in observation windows.</li></ol>					
		a. If Center of Take -Up Roller is not above the middle window, removal of belt sections in sets of 2 to correct tension is to be scheduled at next scheduled maintenance down time.					
		<ul> <li>b. If the Take-Up Roller is visible in the bottom window IMMEDIATE belt tensioning/shortening by removal of belt sections in sets of 2 is required to avoid damaging of machine.</li> </ul>					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
SRT-1/DRIVE END: BEARINGS	54**	Grease Shaft Bearings (Power Off)	10	07	1092	2730	
BE/ (( (i) VOO		CAUTION					
		Discard all hazardous materials (both regulated and non-regulated waste), in accordance with all local and national environmental policies.					
		<ol> <li>Lubricate the sprocket shaft bearings, on both sides, with a grease gun and Mobil FM102 grease or equivalent. If the bearings are sealed, take care not to over lubricate the bearing.</li> </ol>					
		<ol><li>Clean exposed grease from bearing, fitting, and shaft with locally approved cloths.</li></ol>					
		<ol><li>Check that all mounting hardware and securing set screws are tight.</li></ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/DRIVE END:	55**	Clean Belt (Power Off)	15	07	1092	2730	
BELT		<ol> <li>Remove any dust and debris from space around belt, its traverse rollers and other belt features.</li> </ol>					
		<ol><li>Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from exterior of SRT-1.</li></ol>					
		<ol><li>Use a damp cloth to clean the top surface of the belt.</li></ol>					
		<ol> <li>Check all belt-connecting pins are fully installed.</li> </ol>					
	55**	securing set screws are tight.  4. Note any deficiencies and generate a work order/report them to supervisor.  Clean Belt (Power Off)  1. Remove any dust and debris from space around belt, its traverse rollers and other belt features.  2. Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from exterior of SRT-1.  3. Use a damp cloth to clean the top surface of the belt.  4. Check all belt-connecting pins are fully	15	07	1092	2730	

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	5
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
SRT-1/DRIVE END: BELT	56**	Check Belt Disengagement from sprocket (Power Off)	10	07	42	105	
		<ol> <li>At SRT-1 Drive/Head End, run hand over roller belt, make sure roller belt does not contact sprocket and all rollers spin freely.</li> </ol>					
		Run hand over roller belt, make sure rollers spin freely.					
		<ol><li>Check all belt rollers are in place and are not showing cut, nicked, or missing outer rubber coating.</li></ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/DRIVE END:	57**	Check All Belt Guides (Power Off)	20	07	1092	2730	
BELT GUIDES		NOTE					
		This task requires two people. Time is doubled for staffing purposes. Opening and closing of the SRT-1 S7000 belt are two person steps.					
		<ol> <li>Insert an appropriately sized screwdriver/T- handle hex wrench through two belt locking holes near both Drive end and Idle end sprockets. This secures carry-way belt after being opened and does not allow gravity to pull belt into return-way.</li> </ol>					
		<ol><li>Split the belt at center of the SRT-1/DRIVE END module.</li></ol>					
		<ol> <li>While the belt is split, check that no Belt Guide assemblies are worn to the point that the support brackets can be seen through the guide.</li> </ol>					
		<ol> <li>Check that sprockets are aligned with openings in belting, evenly spaced, and teeth have a minimum of 1/16th inch wide flats on their tips.</li> </ol>					
		<ol> <li>Measure edge of S7000 roller belt and belt supporting edge of UHMW plastic Carry-way belt support guides for wear. (If greater than 1/16-inch wear is present on either part that part will need to be scheduled for replacement.)</li> </ol>					
		<ol><li>Reconnect all belting making sure pins are inserted fully.</li></ol>					

Part or	Item		Task Statement and Instruction	Est.	Min.		resholds	1
Component	No		(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		7.	Remove securing screwdrivers/T-handle hex wrenches from belting.					
		8.	Note any deficiencies and generate a work order/report them to supervisor.					
SRT-1/DRIVE END: RETURN-WAY	58**		ean and Inspect Surfaces and Interior of T-1 Drive/Head End (Power Off).	20	07	546	1365	
		1.	Remove conveyor under-guarding as required to allow view of SRT-1 Drive/Head End return-way.					
		2.	Clean underside of SRT-1 Drive/Head End.					
		3.	Gather loose mail and return to proper mail path.					
		4.	Check all pins are fully installed in the belts.					
		5.	Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from interior of Return-Way.					
		6.	Check return rollers turn freely (may require lifting belt sections off return-way rollers to check) and are evenly spaced.					
		7.	Reinstall any removed conveyor guarding.					
		8.	Note any deficiencies and generate a work order/report them to supervisor.					
SRT-1/DRIVE END:	59**	Ch	eck Gearmotor (Power Off)	10	07	546	1365	
GEAR MOTOR			CAUTION					
		and	scard all hazardous materials (both regulated d non-regulated waste), in accordance with local and national environmental policies.					
		1.	Check the motor gear case for oil leaking around seals.					
		2.	Remove any oily buildup from the machine and/or motor gearbox with locally approved oil absorbent cloth and cleaner.					
		3.	Use a HEPA vacuum cleaner to clean accumulated dirt, dust, or debris from the breather on the gear case and the outside of all the drive motor cooling fan covers.					
		4.	Ensure all hardware is tight.					
		5.	Note any deficiencies and generate a work order/report them to supervisor.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
SRT-1/DRIVE END:	60**	Check Sprockets for Tooth Wear (Power Off)	20	07	1092	2730	
SPROCKETS		NOTE					
		This task requires two people. Time is doubled for staffing purposes. Opening and closing of the SRT-1 S7000 belt are two person steps.					
		<ol> <li>Insert an appropriately sized screwdriver/T- handle hex wrench through two belt locking holes near both Drive end and Idle end sprockets. This secures carry-way belt after being opened and does not allow gravity to pull belt into return-way.</li> </ol>					
		2. Split the belt on the head end of the sorter.					
		3. Check that sprockets have no cracks, missing teeth, and flat surfaces at the ends of the teeth at least 1/16th of an inch wide and 1/8th of an inch long.					
		Sprockets need to be aligned with slot on underside of belt.					
		<ol><li>Check sprocket slots on underside of the belt for damage from improper sprocket alignments.</li></ol>					
		Reconnect all belting making sure pins are inserted fully.					
		Remove all screwdrivers/T-handle hex wrenches used to secure carry-way belt.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor if any sprocket requires replacement or plastic belting shows damage from improper alignment.</li> </ol>					
SRT-1/END	61**	Clean/Check Chute Belt (Power Off)	10	07	2184	5460	
CHUTE: CHUTE BELT		Use a HEPA vacuum cleaner to vacuum top and underside of chute belting.					
		Use a pick tool to clean build up from around rollers.					
		Use a HEPA vacuum cleaner to vacuum/wipe chute under roller belt.					
		4. Verify that all rollers:					
		a. Roll freely.					
		b. Do not wobble on pin.					

Part or	Item	Task Statement and Instruction		Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety preca	R	ime Req nin)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		<ul> <li>c. Check all belt rollers are in place not showing cut, nicked, or miss rubber coating.</li> </ul>						
		Note any deficiencies and generate order/report them to supervisor.	a work					
SRT-1/END	62	lean Sensors (Power Off)	1	15	07	0.5	0.5	
CHUTE: SENSOR(S)		lean:						
32/183/1(3)		Cart Present Sensor (SRT1.CPS.E/	R)					
		Divert Verification Sensor (SRT1.D\	/S.E/R)					
		Full Lane Sensor (SRT1.FLS.E/R)						
		Sack Trapped Sensor (SRT1.SRS.E	E/R)					
		Use a HEPA vacuum cleaner to vac required.	uum if					
		Spray lint-free towel with locally app plastic safe cleaner(water), and wipe clean.						
		Note any deficiencies and generate order/report them to supervisor.	a work					
ENTIRE MACHINE:	63**	estore Equipment to Service (Power	· On)	10	07	0.5	0.5	
START UP		efer to the current Energy Control P ECP) to restore power to the machin						
		Check all personnel are clear of made	chine.					
		Check all panel doors are shut and machine guards are installed.	all					
		At the Panel Board or Machine Disc (machine specific), remove Lockout and apply power to machine by turn Machine Disconnect switch or the M Breaker within the Panel Board.	device, ing on the					
		Apply power to the UPS located on bottom of the Sort Server cart.	the					
		Apply power to the following computorder. The software will load autom each computer.						
		<ul> <li>Sort Server computer. Press th button on the front of the Sort Se computer.</li> </ul>						
		<ul> <li>b. OCR Computer. Press the butter front of the OCR computer.</li> </ul>	on on the					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		<ul> <li>vitronic VDU system. Flip rocker switch to ON position on underside of CPU.</li> </ul>				,	
		6. Check Air Compressor is in Run mode.					
		<ol> <li>Press green button on compressor control panel</li> </ol>					
ENTIRE MACHINE:	64**	Check Machine Operation (Power On)	10	07	0.5	0.5	
VERIFY OPERATION		<ol> <li>At Sort Server GUI load the maintenance Fan Sort program.</li> </ol>					
		<ol><li>Start machine and let system run for 30 seconds.</li></ol>					
		<ol><li>If faults/warnings are present on the GUI, notify supervisor.</li></ol>					
		<ol> <li>Stop machine by exiting the Fan Sort on the GUI.</li> </ol>					
IND-1: BELT	65**	Check Belt for Proper Tracking (Power On)	20	07	546	1365	
		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on and covers/panels open.					
		<ol> <li>Remove Lower IND-1 Drive end plywood cover.</li> </ol>					
		2. Start machine.					
		3. Check belt for:					
		<ul> <li>Belt for missing, damaged, or wobbling rollers.</li> </ul>					
		<ul> <li>b. Belts are aligned with sprockets. (No visible "Jumping" of belt or audible misalignment.)</li> </ul>					
		<ul> <li>Sprockets (Drive and Idle) are evenly distributed across drive/idle shafts.</li> </ul>					
		<ul> <li>d. Sidewalls for uneven wear or buildup of plastic dust which will indicate signs of improper tracking. (Finding plastic dust from guides or belting in any location is ar indication of belt wearing against a surface.)</li> </ul>					
		1. Stop machine.					
		<ol><li>Replace Lower IND-1 Drive end plywood cover.</li></ol>					

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No		(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
				Req (min)	Lev	Hours	Fed (000)	
		6.	Note any deficiencies and generate a work	()			(000)	
			order/report them to supervisor.					
IND-1:	66**	Ch	eck Infeed E-Stop Pullcords (Power On)	15	09			М
EMERGENCY STOP(S)			WARNING					
		per cau	tivities in this bulletin require work to be formed with the equipment powered on. Be utious when working around or on uipment when power has been applied.					
			NOTE					
		Sto	nen performing this step, check only one E- op Pullcord with machine running. Check posite side E-Stop Pullcord while machine is opped.					
		1.	Load Maintenance <b>Fan Sort</b> sortplan on the Sort Server (SS).					
		2.	Verify that system Start button is flashing green (Ready to Start).					
		3.	Start machine by holding the Start button at the Operator Pushbutton Station (OPS) pressed until the horns sound.					
		4.	Allow machine to start running.					
		5.	Pull E-Stop Pullcord on right/left side.					
		6.	Check that the Air Treatment Assembly Dump Valve discharges all air in the system.					
		7.	Verify E-Stop Pullcord functionality.					
			a. The E-Stop Pullcords indicator light is red (flashing).					
			b. All the Stack Lights are solid red.					
			c. Control Power On button is not illuminated.					
			d. The Sort Server HMI displays an E-Stop fault.					
			e. The machine will not start by pushing and holding the System Start button at the OPS for 4 seconds.					
		8.	Push the blue push button on the activated E-Stop Pullcord to reset it.					
		9.	Check the E-Stop Pullcord indicator light turns green and the Control Power On button is flashing.					

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	s
Component	No	(Con	nply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
				Req (min)	Lev	Hours	Fed (000)	
			s Control Power On button and verify its transitions to solid on.	,			(000)	
		pres	Start button will be flashing now and sing it once quickly will allow you refresh clear the faults on the Sort Server HMI.					
		12. State	k Lights will reset to a green light flashing e.					
		13. Rep	eat Steps 3 thru 11 on opposite side.					
			any deficiencies and generate a work r/report them to supervisor.					
IND-1: SENSOR(S)	67**	the tuni	he Over Height Sensor (IND-1.OHS) on nel of IND-1 Conveyor for proper on (Power On)	8	09	182	455	
			WARNING					
		perform cautiou	es in this bulletin require work to be ed with the equipment powered on. Be s when working around or on ent when power has been applied.					
		or c	the sorter running, use a piece of paper ardboard to block the sensor to test its tionality.					
			Check running functionality. Blocked ess than 30 seconds and then unblocked.					
			<ol> <li>The IND-1 Conveyor only will stop immediately.</li> </ol>					
			<ol><li>Sorter portion of machine will stay running.</li></ol>					
			<ol><li>No error will be displayed on the Sort Server HMI.</li></ol>					
			<ol> <li>Pressing only the Start button on the Operator Pushbutton Station the IND- 1 conveyor will restart.</li> </ol>					
			<b>Check Jam Functionality</b> . Blocked for 30 seconds or more.					
			1) The entire machine will stop.					
			<ol> <li>Induction Belt Over-Height Sensor Fault (IND-1.OHS) displays on the Sort Server HMI.</li> </ol>					
			<ol> <li>The IND Stack Light will be blinking red, amber, and green while blockage is present.</li> </ol>					
		•		•				

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
		<ol> <li>End Chute Stack lights will be blinking red.</li> </ol>					
		<ol><li>Machine will not restart with blockage/jam in place.</li></ol>					
		2. Remove blockage.					
		<ol><li>Push the green, system Start button on the Operator Pushbutton Station for 3 seconds to start the machine again.</li></ol>					
		4. Stop machine.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
DWS-1/BUFFER: BELT	68**	Verify Belt Tracking and Tensioning (Power On)	10	07	546	1365	
		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		1. With machine running.:					
		<ul> <li>Belt needs to be centered on the conveyor bed and the idler roller.</li> </ul>					
		<ul> <li>The belt does not contact conveyor guarding.</li> </ul>					
		<ul> <li>c. Check belts for fraying and signs of damage.</li> </ul>					
		2. Stop machine.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
DWS-1/BUFFER: SENSOR(S)	69**	Check IND-1 Pre-Cognition Sensor (IND1.PCS) between IND-1 and DWS-1 conveyors for proper operation (Power On)	12	09	182	455	
		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		Remove left or right window from DWS-1.					
		<ol><li>With the sorter running, use a piece of paper or cardboard to block the IND1.PCS sensor to test its functionality.</li></ol>					

Part or	Item			Fask Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No		(Comp	ly with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
			fo	heck running functionality. Blocked r more than 0.5 seconds and less than 3 econds.					
			1)	Check that IND-1 belt slows when it is blocked for more than 0.5 seconds and less than 3 seconds.					
			2)	Confirm that the belt will come back up to speed when unblocked.					
				heck Jam Functionality. Blocked 3 econds or more.					
			1)	Check if the sensor is blocked for 3+ seconds, the machine will stop.					
			2)	Induction Belt Pre-Cognition Sensor Fault (IND1.PCS) will be displayed on the HMI.					
			3)	Check the IND Stack Light is blinking red, amber, and green after the machine has stopped due to the jam condition.					
			4)	Check the End Chute Stack Lights are blinking red.					
			5)	Machine will not restart with blockage/jam in place.					
		3.	Remo	ve blockage.					
		4.	Repla	ce removed window.					
		5.	Opera	the green, system Start button on the tor Pushbutton Station for 3 seconds to ne machine again.					
		6.	Stop	nachine.					
		7.		any deficiencies and generate a work report them to supervisor.					
DWS-2/VITRONIC CAMERA	70**	Cai	mera A	lignment (Power On)	30	09	546	1365	
ALIGNMENT				WARNING					
		per cau	forme utious	in this bulletin require work to be d with the equipment powered on. Be when working around or on it when power has been applied.					
		1.		m Vitronic Camera Alignment per MS- IPS Handbook.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
DWS-2/SCALE:	71**	Replace Battery in OCS Cabinet (Power On)	25	09	2184	5460	
BATTERY		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		WARNING					
		Before performing the following steps, don the appropriate EWP PPE and set up barricades as required by the current Electrical Work Plan (EWP) MMO.					
		NOTE					
		If battery is replaced with power down, configuration settings must be reloaded.					
		1. Don EWP PPE.					
		Open OCS cabinet. (Requires powering cabinet off.)					
		3. Turn power on to OCS Cabinet.					
		<ol> <li>Replace Battery in OCS cabinet with CR2450N. (Cabinet must be powered on when replacing battery.)</li> </ol>					
		5. Turn power Off to OCS Cabinet.					
		6. Close OCS Cabinet					
		7. Turn power On to OCS Cabinet.					
		8. Doff EWP PPE.					
		Check scale reports weight to Sort Server during a Fan Sort.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
DWS-2/SCALE:	72**	Verify Belt Tracking and Tension. (Power On)	10	07	546	1365	
BELT		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		1. With machine running:					
		Belt needs to be centered on the conveyor bed and the idler roller.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)	LGV	Hours	Fed (000)	
		<ul> <li>b. The belt does not contact conveyor guarding.</li> </ul>					
		<ul> <li>c. Check belts for fraying and signs of damage.</li> </ul>					
		2. Stop machine.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
DWS-2/SCALE:	73**	Calibrate Scale (Power On)	30	09	546	1365	
CALIBRATE		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		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.					
		<ol> <li>Check that after, a thorough cleaning and scale belt is clear of foreign objects, that the scale display reads zero.</li> </ol>					
		<ol> <li>If scale is not reading Zero, press and hold the F3 button until the display shows Zero. (Scale must read zero before proceeding. Scale offset adjustment may be required.)</li> </ol>					
		<ol><li>Place a 20 lb. test weight on the scale and verify that scale displays 20 lb.</li></ol>					
		<ol> <li>If scale does not display 20 lb., then a perform a scale calibration. Otherwise proceed to Step 6.</li> </ol>					
		5. Scale Calibration:					
		<ul> <li>Turn the power off to the Scale Control Panel.</li> </ul>					
		b. Don EWP PPE.					
		c. Open Scale Control Panel.					
		<ul> <li>d. Set Scale Calibration Locking switch to off.</li> </ul>					
		e. Close Scale Control Panel.					
		f. Turn the power on the Scale Control Panel.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	<u> </u>
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	1
			Req	Lev	Hours	Fed	· ·
		g. On the Main screen press the <b>F1</b> key	(min)			(000)	
		g. On the Main screen press the <b>F1</b> key (Lower left corner).					
		<ul> <li>h. When the keypad pops up, enter 9632 and press the F8 or Enter key.</li> </ul>					
		<ol> <li>Check that Level 3 shows in the Upper left corner of display.</li> </ol>					
		j. Press <b>F8</b> (tools symbol).					
		<ul> <li>check that Cal. Locking device off is displayed in the active weight display window of the screen.</li> </ul>					
		<ol> <li>Check <b>Service</b> in the center of the bar on the top of screen.</li> </ol>					
		m. Press <b>F3</b> (Scale symbol) button.					
		<ul> <li>n. Check <b>Scale</b> in the center of the bar at the top of the screen.</li> </ul>					
		o. Press the <b>F6</b> (Calibration Weight) button.					
		<ul> <li>Follow on screen instructions using a calibration weight.</li> </ul>					
		q. Press the F1 (Exit) button in the lower left of the screen when done with all onscreen instructions.					
		r. Power off Scale Control Panel.					
		s. Open Scale Control Panel.					
		t. Turn Calibration Locking switch on.					
		u. Close Scale Control Panel.					
		v. Turn Scale Control Panel on.					
		6. Doff EWP PPE.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
DWS-2/SCALE:	74**	Set Scale Offset (Power On)	20	09	546	1365	
OFFSET		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					

#### **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.

#### NOTE

If scale sill will not Zero, then an "offset" calibration will need to be performed.

- 1. Offset Calibration:
  - Turn the power off to the Scale Control Panel.
  - b. Don EWP PPE.
  - c. Open Scale Control Panel.
  - d. Set Scale Calibration Locking switch to off.
  - e. Close Scale Control Panel.
  - f. Turn the power on the Scale Control Panel.
  - g. On the Main screen press the **F1** key (Lower left corner).
  - h. When the keypad pops up, enter **9632** and press the **F8** or **Enter** key.
  - Check that Level 3 shows in the Upper left corner of display.
  - j. Press F8 (tools symbol).
  - check that Cal. Locking device off is displayed in the active weight display window of the screen.
  - Check **Service** in the center of the bar on the top of screen.
  - m. Press F3 (Scale symbol) button.
  - n. Check **Scale** in the center of the bar at the top of the screen.
  - o. Press the **F5** (Offset) button.
  - Follow on screen instructions to set Offset.
  - q. Press the **F1**(Exit) button in the lower left of the screen when done with all onscreen instructions.
  - r. Power off Scale Control Panel.
  - s. Open Scale Control Panel.
  - t. Turn Calibration Locking switch on.

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No		(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
			u. Close Scale Control Panel.	,			(000)	
			v. Turn Scale Control Panel on.					
		2.	Doff EWP PPE.					
		3.	Note any deficiencies and generate a work order/report them to supervisor.					
DWS-2/SCALE:	75**	Che	eck Sensors for Proper Action (Power On)	15	09	182	455	
SENSOR(S)			eck each of the following sensors with the os below.					
		•	DWS-2 Width Array (DWS.DIM.W emitter and receiver)					
		•	DWS-2 Height Array (DWS.DIM.H emitter and receiver)					
		•	DWS-2 Product Jam Sensor (DWS.PJS					
			WARNING					
		per cau	ivities in this bulletin require work to be formed with the equipment powered on. Be tious when working around or on ipment when power has been applied.					
		1.	With the sorter running, use a piece of cardboard to block the sensor, creating a jam.					
		2.	Check:					
			a. The machine stops immediately.					
			b. Width Array Jam (DWS.DIM.W), Height Array Jam (DWS.DIM.H), or Product Jam Sensor is displayed on the HMI.					
			<ul> <li>The IND-1 Stack Light is blinking red, amber, and green.</li> </ul>					
			<ul> <li>The SRT-1/End Chute Stack Lights are blinking red.</li> </ul>					
			e. Machine will not restart with blockage/jam in place.					
		3.	Remove blockage.					
		4.	Push the green, system Start button on the Operator Pushbutton Station for 3 seconds to start the machine again.					
		5.	Stop machine.					
		6.	Note any deficiencies and generate a work order/report them to supervisor.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
DWS-2/SCALE:	76**	Check DWS Height Tower Array (Power On)	2	07	182	455	
SENSOR(S)		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		NOTE					
		This sensor has NO jam functionality, only Height dimension for camera focus.					
		It is not necessary to run the system to check for proper action on the Height Tower Array for Vitronic Camera focus, use a piece of paper or cardboard to block the sensor.					
		The green LED represents that power is applied to the array.					
		b. The amber LED will be lit representing a package present.					
		c. The red LED will only illuminate if there is an array fault.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
DWS- 2/SCALE/DIM:	77**	Check Weigh and Dimension Accuracy. (Power On)	10	07	0.5	0.5	
VALIDATION		Check the Weigh Scale system and     Dimension Measurement system for accuracy     using current MMO SIPS Scale and     Dimension Validation.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
DWS-2/SCALE:	78**	Zero Scale (Power On)	20	07	0.5	0.5	
ZERO		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		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.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)	Lev	Hours	Fed (000)	
		<ol> <li>Check that after, a thorough cleaning and scale belt is clear of foreign objects, that the scale display reads zero.</li> </ol>					
		2. If scale is not reading Zero, Press and hold the <b>F3</b> button until the display shows Zero.					
		<ol><li>If scale sill will not Zero, then an "offset"; calibration will need to be performed.</li></ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
IFS-1/INCLINE:	79**	Check Belt Tracking and Tension (Power On)	10	07	546	1365	
BELT		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		1. With Machine running.					
		<ol><li>Belt needs to be centered on the conveyor bed and the idler roller.</li></ol>					
		3. The belt does not contact conveyor guarding.					
		4. Check belts for fraying and signs of damage.					
		5. Stop machine.					
		<ol><li>Note any deficiencies and generate a work order.</li></ol>					
IFS-1/INCLINE: EMERGENCY	80**	Adjust Emergency Pullcord Tension If Needed. Power On)	15	09			М
STOP(S)		<ol> <li>Check green adjustment arrow is aligned with reference mark in adjustment window.</li> </ol>					
		2. If out of alignment:					
		a. Loosen jam nut.					
		<ul> <li>Turn hex coupler until green adjustment arrow is aligned with reference mark on adjustment window.</li> </ul>					
		c. Tighten jam nut securely.					
		3. Test E-Stop Pullcord by pulling cord.					
		<ol> <li>Reset E-Stop Pullcord by pressing blue button.</li> </ol>					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
IFS-2/CURVE:	81**	Verify Belt Tracking and Tension (Power On)	10	07	546	1365	
BELT		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		1. With machine running:					
		Belt needs to be centered on the conveyor bed and the idler roller.					
		Belt does not contact conveyor guarding.					
		4. Check belts for fraying and signs of damage.					
		5. Stop machine.					
		Note any deficiencies and generate a work order.					
IFS-2/CURVE:	82**	Check All IFS-2 E-Stops (Power On)	12	09			М
EMERGENCY STOP(S)		WARNING					
3131(3)		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		NOTE					
		When performing this step, check only one emergency stop switch with machine running. Check all other E-Stop switches while machine is stopped.					
		Load Maintenance <b>Fan Sort</b> sortplan on the Sort Server.					
		Check that System Start button is flashing green (Ready to Start).					
		<ol> <li>Start Machine by holding the Start button at the Operator Pushbutton Station pressed until the horns sound.</li> </ol>					
		4. Allow machine to start running.					
		5. Push an IFS-2 E-Stop button.					
		6. Check E-Stop functionality:					
		a. If running, machine will stop immediately.					
		<ul> <li>b. Check button lights up indicating it is pressed.</li> </ul>			_		

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)	Lev	Hours	Fed (000)	
		c. Check Stack Lights all indicate solid red.					
		<ul> <li>d. Check the Guard Link Tap for this E-Stop displays solid red.</li> </ul>					
		<ul> <li>e. Check that the other Guard Link Taps along the same side of the machine are flashing a green light on top with a solid red light on bottom.</li> </ul>					
		f. Check the Sort Server computer displays an E-Stop fault. If Fault Status Pop-up is not active on the HMI display, click on the red E-Stop bit status line in the upper right corner of the screen.					
		<ul> <li>g. Check the machine will not start by holding the Start button pressed for 4 seconds.</li> </ul>					
		<ol><li>Pull the push button at the E-Stop out. This will restore all the Guard Link Taps to solid green lights on top and bottom.</li></ol>					
		Reset Control Power at Operator Pushbutton Station.					
		<ol><li>Reset Machine fault by pressing the Start button. (If you do not do this step the next step will fail!)</li></ol>					
		Refresh Sort Server computer fault pop-up and fault will clear.					
		11. Repeat Steps 5 thru 10 for each E-Stop on IFS-2.					
		12. End Maintenance sortplan.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
IFS-2/CURVE: SENSOR(S)	83**	Check IFS-2 Tail End Sensor (IFS-2.TES) between IFS-1 and IFS-2 conveyors for proper operation (Power On)	10	07	182	455	
		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		Remove left or right window from DWS-1.					
		<ol><li>With the sorter running, use a piece of cardboard to block the IND1.PCS sensor to test its functionality.</li></ol>					

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Co	omply with all current safety precautions)	Time	Skill	Run	Pieces	
				Req (min)	Lev	Hours	Fed (000)	
		3. Ch	eck:	()			(000)	
		a.	Machine stops instantly.					
		b.	IFS Tail End Sensor Fault (IFS-2.TES) will be displayed on the HMI.					
		C.	The IND Stack Light is blinking red, amber, and green after the machine has stopped due to the jam condition.					
		d.	The End Chute Stack Lights are blinking red.					
		e.	Machine will not restart with blockage/jam in place.					
		4. Re	move blockage.					
		5. Re	place removed window.					
		Op	sh the green, system Start button on the perator Pushbutton Station for 3 seconds to art the machine again.					
		7. Sto	op machine.					
			te any deficiencies and generate a work der/report them to supervisor.					
AIR TREATMENT ASSEMBLY: AIR	84**	Perfor (Powe	m Operational Check of Air Dump Valve r On)	7	07	182	455	
DUMP VALVE			WARNING					
		perfor cautio	ies in this bulletin require work to be med with the equipment powered on. Be us when working around or on nent when power has been applied.					
		1. Wi	th Air Treatment Assembly pressurized.					
		a.	Press a nearby E-Stop and check:					
			<ol> <li>Exhaust silencer does not drip or spray oil or water while system is draining air.</li> </ol>					
			2) Regulator Pressure gauge drops to 0 psi.					
			<ol> <li>Air Pressure Sensor indicator drops to 0 psi.</li> </ol>					
		a.	Reset E-Stop.					
		b.	Press Control Power On at the Operator Pushbutton Station and check.					

Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
	<ol> <li>Regulator pressure gauge reads 50 ± 3 psi.</li> </ol>				()	
	<ol> <li>Air pressure sensor indicator reads 50 ± 3 psi.</li> </ol>					
	<ul> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ul>					
85**	Perform Leak/Condition check on Air Treatment Assembly (Power On)	10	07	42	105	
	WARNING					
	performed with the equipment powered on. Be cautious when working around or on					
	Check Condition of air manifold assembly (Usually located close to the SRT-1 Idle End.)					
	Check system is pressurized.					
	<ol> <li>Check indication of 50 ± 3 psi on pressure regulator gauge. (Adjust if needed.)</li> </ol>					
	<ol> <li>Check pressure reads 50 ± 3 psi on Air Pressure Sensor.</li> </ol>					
	4. Listen for hissing or leaking air.					
	<ol> <li>Check for oil or water signs or build- up/dripping around or near entire assembly paying close attention to the exhaust silencers and the regulator filter bowl/reservoir.</li> </ol>					
	<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
86**		7	07	182	455	
	WARNING					
	performed with the equipment powered on. Be cautious when working around or on					
	1. With Air Treatment Assembly pressurized.					
	a. Turn cutout valve off and check.					
	<ol> <li>Exhaust silencer does not drip or spray oil or water while system is draining air.</li> </ol>					
	85** 86**	1) Regulator pressure gauge reads 50 ± 3 psi. 2) Air pressure sensor indicator reads 50 ± 3 psi. c. Note any deficiencies and generate a work order/report them to supervisor.  85** Perform Leak/Condition check on Air Treatment Assembly (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  Check Condition of air manifold assembly (Usually located close to the SRT-1 Idle End.)  1. Check system is pressurized. 2. Check indication of 50 ± 3 psi on pressure regulator gauge. (Adjust if needed.) 3. Check pressure reads 50 ± 3 psi on Air Pressure Sensor.  4. Listen for hissing or leaking air. 5. Check for oil or water signs or build-up/dripping around or near entire assembly paying close attention to the exhaust silencers and the regulator filter bowl/reservoir. 6. Note any deficiencies and generate a work order/report them to supervisor.  86** Perform Operational Check of Air Cut-Off Valve (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied. 1. With Air Treatment Assembly pressurized. a. Turn cutout valve off and check. 1) Exhaust silencer does not drip or spray oil or water while system is	No  (Comply with all current safety precautions)  Time Req (min)  1) Regulator pressure gauge reads 50 ± 3 psi.  2) Air pressure sensor indicator reads 50 ± 3 psi.  c. Note any deficiencies and generate a work order/report them to supervisor.  85**  Perform Leak/Condition check on Air Treatment Assembly (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  Check Condition of air manifold assembly (Usually located close to the SRT-1 Idle End.)  1. Check system is pressurized.  2. Check indication of 50 ± 3 psi on pressure regulator gauge. (Adjust if needed.)  3. Check pressure reads 50 ± 3 psi on Air Pressure Sensor.  4. Listen for hissing or leaking air.  5. Check for oil or water signs or build-up/dripping around or near entire assembly paying close attention to the exhaust silencers and the regulator filter bowl/reservoir.  6. Note any deficiencies and generate a work order/report them to supervisor.  86**  Perform Operational Check of Air Cut-Off Valve (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  1. With Air Treatment Assembly pressurized.  a. Turn cutout valve off and check.  1) Exhaust silencer does not drip or spray oil or water while system is	No (Comply with all current safety precautions)    Req (min)	No (Comply with all current safety precautions)  Time Req (min)  1) Regulator pressure gauge reads 50 ± 3 psi.  2) Air pressure sensor indicator reads 50 ± 3 psi.  c. Note any deficiencies and generate a work order/report them to supervisor.  85** Perform Leak/Condition check on Air Treatment Assembly (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  Check Condition of air manifold assembly (Usually located close to the SRT-1 Idle End.)  1. Check system is pressurized.  2. Check indication of 50 ± 3 psi on pressure regulator gauge. (Adjust if needed.)  3. Check pressure reads 50 ± 3 psi on Air Pressure Sensor.  4. Listen for hissing or leaking air.  5. Check for oil or water signs or build-up/dripping around or near entire assembly paying close attention to the exhaust silencers and the regulator filter bowl/reservoir.  6. Note any deficiencies and generate a work order/report them to supervisor.  86** Perform Operational Check of Air Cut-Off Valve (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  1. With Air Treatment Assembly pressurized.  a. Turn cutout valve off and check.  1) Exhaust silencer does not drip or spray oil or water while system is	No (Comply with all current safety precautions)    Time Req (min)   Regulator pressure gauge reads 50 ± 3 psi.

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(0	comply with all current safety precautions)	Time Req	Skill Lev	Run Hours	Pieces Fed	
				(min)			(000)	
			<ol><li>Regulator Pressure gauge drops to 0 psi.</li></ol>					
			<ol> <li>Air Pressure sensor indicator drops to 0 psi.</li> </ol>					
		b	Turn cutout valve back on and check.					
			1) Regulator gauge reads 50 ± 3 psi.					
			<ol> <li>Air Pressure sensor indicator reads 50 ± 3 psi.</li> </ol>					
			ote any deficiencies and generate a work rder/report them to supervisor					
AIR TREATMENT ASSEMBLY:	87**		rm Operational Check of Air Pressure or (Power On)	7	09	182	455	
SENSOR(S)			WARNING					
		perfo cauti	ities in this bulletin require work to be rmed with the equipment powered on. Be ous when working around or on oment when power has been applied.					
		1. S	tart machine.					
		2. T	urn Air Cut-Off Valve off and check:					
		а	When APS indicator drops below 40 psi the machine stops running.					
		b	The HMI on the Sort Server indicates an <b>Air Pressure Out of Range</b> fault.					
		С	Machine will not start after pressing the Start button for 4 seconds. (System may indicate with lights and horns that it is starting but the machine will not start.)					
		d	Control Power On button at Operator Pushbutton Station will not reset.					
		3. T	urn Air Cut-Off Valve on and check:					
		а	APS indicator returns to reading 50 ± 3 psi.					
		b	Control Power On button at Operator Pushbutton Station will reset.					
		С	<b>Air Pressure Out of Range</b> fault on HMI can be cleared by refreshing.					
		d	Machine will start if Start button is pressed for 3 or more seconds.					

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	1	Comply with all current safety precautions)	Time Req	Skill Lev	Run Hours	Pieces Fed	Freq.
				(min)			(000)	
			Note any deficiencies and generate a work order/report them to supervisor.					
SRT-1/IDLE: EMERGENCY	88**	Che On)	ck All SRT-1: IDLE END E-Stops (Power	10	09			М
STOP(S)			WARNING					
		per cau	vities in this bulletin require work to be formed with the equipment powered on. Be tious when working around or on ipment when power has been applied.					
			NOTE					
		eme Che	en performing this step, check only one ergency stop switch with machine running. ck all other E-Stop switches while machine copped.					
			Load Maintenance <b>Fan Sort</b> sortplan on the Sort Server.					
			Check that System Start button is flashing green (Ready to Start).					
			Start Machine by holding the Start button at the Operator Pushbutton Station pressed until the horns sound.					
		4.	Allow machine to start running.					
		5.	Push an SRT-1: IDLE END E-Stop button.					
		6.	Check E-Stop functionality:					
			a. If running, machine will stop immediately.					
			<ul> <li>E-Stop button lights up indicating it is pressed.</li> </ul>					
			c. All Stack Lights indicate solid red.					
			<ul> <li>The Guard Link Tap for this E-Stop displays solid red.</li> </ul>					
			e. All other Guard Link Taps along the same side of the machine are flashing a green light on top with a solid red light on bottom.					
			f. The Sort Server HMI displays an E-Stop fault. If <b>Fault Status</b> Pop-up is not active on the HMI display, click on the red E-Stop bit status line in the upper right corner of the screen.					
	_		g. The machine will not start by holding the Start button pressed for 4 seconds.			_		

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)	Lev	Hours	Fed (000)	
		7. Pull the push button at the activated E-Stop					
		out. This will restore all the Guard Link Taps to solid green lights on top and bottom.					
		Reset Control Power at Operator Pushbutton Station.					
		<ol><li>Reset Machine fault by pressing the Start button. (If you do not do this step the next step will fail!)</li></ol>					
		<ol> <li>Refresh Sort Server HMI fault pop-up and fault will clear.</li> </ol>					
		11. Repeat Steps 5 thru 10 for each E-Stop on SRT-1: IDLE END.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/IDLE:	89**	Check Sensors for Proper Action (Power On)	10	09	182	455	
SENSOR(S)		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		Check each of the following sensors with the steps below.					
		<ul> <li>SRT-1 Idle End Belt Disengagement Sensor (SRT1.BDS) at the tail end of SRT1</li> </ul>					
		SRT-1 Idle End Trash Sensor (SRT1.TRS)					
		SRT-1 Tail End Sensor (SRT1.TES					
		With the sorter running, use a piece of cardboard to block the sensor, creating a jam.					
		2. Check Jam Functionality.					
		a. Machine stops immediately.					
		<ul> <li>b. Sorter 1 Belt Disengagement Sensor Fault (SRT1.BDS), Sorter 1 Tail End Sensor Fault (SRT1.TES), or Sorter 1 Trash Sensor Fault (SRT1.TRS) appropriate to the jam induced is displayed on the HMI.</li> </ul>					
		<ul> <li>c. IND-1 Stack Light is blinking red, amber, and green.</li> </ul>					
		<ul> <li>d. The SRT-1 End Chute Stack Lights are blinking red.</li> </ul>					

Component  No  (Comply with all current safety precautions)  Time Req (min)  e. Control Power On button is illuminated white.  f. Machine will not start until jam situation is cleared after stopping.  3. Remove the obstruction causing the jam.  4. Push the green system Start button on Operator Pushbutton Station to start machine again.  5. Repeat Steps 1-4 for each sensor.  6. Stop machine.  7. Note any deficiencies and generate a work order/report them to supervisor.  SRT-1/IDLE: SENSOR(S)  SRT-1 Tail End Encoder (SRT1.ENC) Sensor at the tail end of SRT-1 (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on Be cautious when working around or on equipment when power has been applied.  1. Check Functionality Idle.  a. Green LED on encoder is on or off solid.	req.
e. Control Power On button is illuminated white.  f. Machine will not start until jam situation is cleared after stopping.  3. Remove the obstruction causing the jam.  4. Push the green system Start button on Operator Pushbutton Station to start machine again.  5. Repeat Steps 1-4 for each sensor.  6. Stop machine.  7. Note any deficiencies and generate a work order/report them to supervisor.  SRT-1/IDLE: SENSOR(S)  90**  Check SRT-1 Tail End Encoder (SRT1.ENC) Sensor at the tail end of SRT-1 (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  1. Check Functionality Idle.	
white.  f. Machine will not start until jam situation is cleared after stopping.  3. Remove the obstruction causing the jam.  4. Push the green system Start button on Operator Pushbutton Station to start machine again.  5. Repeat Steps 1-4 for each sensor.  6. Stop machine.  7. Note any deficiencies and generate a work order/report them to supervisor.  SRT-1/IDLE: SENSOR(S)  90**  Check SRT-1 Tail End Encoder (SRT1.ENC) Sensor at the tail end of SRT-1 (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  1. Check Functionality Idle.	
cleared after stopping.  3. Remove the obstruction causing the jam.  4. Push the green system Start button on Operator Pushbutton Station to start machine again.  5. Repeat Steps 1-4 for each sensor.  6. Stop machine.  7. Note any deficiencies and generate a work order/report them to supervisor.  SRT-1/IDLE: SENSOR(S)  90** Check SRT-1 Tail End Encoder (SRT1.ENC) Sensor at the tail end of SRT-1 (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  1. Check Functionality Idle.	
4. Push the green system Start button on Operator Pushbutton Station to start machine again.  5. Repeat Steps 1-4 for each sensor.  6. Stop machine.  7. Note any deficiencies and generate a work order/report them to supervisor.  SRT-1/IDLE: SENSOR(S)  90** Check SRT-1 Tail End Encoder (SRT1.ENC) Sensor at the tail end of SRT-1 (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  1. Check Functionality Idle.	
Operator Pushbutton Station to start machine again.  5. Repeat Steps 1-4 for each sensor. 6. Stop machine. 7. Note any deficiencies and generate a work order/report them to supervisor.  SRT-1/IDLE: SENSOR(S)  90**  Check SRT-1 Tail End Encoder (SRT1.ENC) Sensor at the tail end of SRT-1 (Power On)  WARNING  Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  1. Check Functionality Idle.	
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performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.  1. Check Functionality Idle.	
a. Green LED on encoder is on or off solid.	
(Stop location dependent.)	
b. Amber LED on encoder is not flashing.	
c. Amber LED on encoder is not on solid.	
2. Check Functionality Running.	
a. Start machine.	
b. Green LED on encoder is on solid.	
c. Amber LED on encoder is not flashing.	
d. Amber LED on encoder is not on solid.	
e. Stop machine.	
3. Check input X5 transition on SRT-1.IOL.IDLE module. (Solid green while running and flickers to solid on or off when machine is starting or stopping)	
Note any deficiencies and generate a work order/report them to supervisor.	
SRT-1/SORTER:         91**         Perform Leak Check (Power On)         30         07         182         455	
AIR 1. Check air system is pressurized.	

Part or Component No (Comply with all current safety precautions)  Req (min)  2. Start at left side of IFS-1 conveyor and walk around machine while listening for hissing or leaking air.  3. Check air pressure on the air manifold assembly below the SRT-1 file End.  a. Check there is no drop in air pressure. Monitor for a minimum of 2 minutes.  4. Check separator filter to ensure automatic drain is not clogged.  a. Don eye and ear protection.  b. With a small container underneath filter, turm nozzle on bottom of filter counterclockwise a quarter-turn to release water.  c. Turn nozzle clockwise until it stops to close drain.  d. Doff eye and ear protection.  5. Note any deficiencies and generate a work order/report them to supervisor.  SRT-1/SORTER: BELT  92**  Check Belt Tracking and Sprocket Alignment (Power On)  WARNING  Activities in this bulletin require work to be cautious when working around or on equipment when power has been applied.  1. Start machine.  2. Check belt for:  a. Missing, or wobbling rollers, rollers with nicks cuts or missing rubber coatings.  b. Alignment with idle/drive sprockets. (No visible "Jumping" of belt, or audible missing interest contains and interest in audition of particular in a displayment.)  c. Sprockets are evenly distributed across idle/drive shafts.	_			f <u>_</u>		_		
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			visible "Jumping" of belt, or audible					

Part or	Item		nt and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all curr	rent safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		plastic dust which improper trackir from guides or b	neven wear or buildup of th will indicate signs of ng. (Finding plastic dust pelting in any location is an t wearing against a					
		Stop machine.						
		_	spect, power down and d perform the following:					
			ce between edge of belt ideguard or UHMW strip. iively centered.					
		side, or is too cl	d to be wearing on one ose to side guarding or ad end sprocket requires					
		Note any deficiencie order/report them to	es and generate a work supervisor.					
SRT-1/SORTER: RACK-N-ROLL	93**	heck SRT-1 Rack-N-F ctivation (Power On)		20	09	42	105	
		WA	RNING					
		Start machine.						
		left side of the SRT-	ng place a package on the 1 belt at the SRT-1/IDLE n of the Tail End Sensor					
		Check that the pack End Chute without a	age travels straight to the any change in path.					
		Make note of any cheviates from its co	nute where the package urse.					
		Repeat Steps 2 thro package in the cent side of belt.	ough 4 placing the er and again on the right					
		Note any deficiencie order/report them to	es and generate a work supervisor.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	
'		,	Req	Lev	Hours	Fed	1 104.
			(min)			(000)	
SRT-1/SORTER: SOLENOID VALVE	94**	Perform Leak Check and Inspect Rack and Roll Activation (Power On)	5*	07	546	1365	
BANKS		NOTE					
		Start at left side of Tail End (IDLE) Module and proceed toward End Chute (DRIVE) Module.					
		Check air system is pressurized.					
		Test Rack and Roll for proper action at Solenoid Valve Bank (Note: Quarter turn of the blue button will lock rack in active position.)					
		<ul> <li>a. Press blue button on the Solenoid Valve Bank and verify proper operation of each pneumatic component (cylinders, pop-up diverts, etc.).</li> </ul>					
		<ul> <li>b. Listen for leaks while cylinders are activated.</li> </ul>					
		c. Check that rack (blue button) is not locked pressing it in, gently turning it counterclockwise to its stop, then releasing it.					
		Repeat Step 2 for each Solenoid Valve Bank in system.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
		Note: Time is per module, each Sort Module contains 8 runout chutes, 4 on each side.					
SRT-1/SORT MODULE:	95**	Check All SRT-1: Sort Module E-Stops (Power On)	4*	09			М
EMERGENCY STOP(S)		WARNING					
0101(0)		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		NOTE					
		When performing this step, check only one emergency stop switch with machine running. Check all other E-Stop switches while machine is stopped.					
		Load Maintenance <b>Fan Sort</b> sort plan on the Sort Server.					

Component No (Comply with all current safety precautions) Red (Minin)  2. Check that System Start button is flashing green (Ready to Start).  3. Start Machine by holding the Start button at the Operator Pushbutton Station pressed until the horns sound.  4. Allow machine to start running.  5. Push an SRT-1: SORT MODULE E-Stop button.  6. Check E-Stop functionality.  a. If running, machine will stop immediately.  b. E-Stop button lights up indicating it is pressed.  c. All Stack Lights indicate solid red.  d. The Guard Link Tap for this E-Stop displays solid red. (Located under the runout chules.)  e. All other Guard Link Taps along the same side of the machine are flashing a green light on top with a solid red light on bottom.  f. The Site Server HMI displays an E-Stop fault. If Fault Status Pop-up is not active on the HMI display, click on the red E-Stop bit status line in the upper right corner of the screen.  g. The machine will not start by holding the Start button pressed for 4 seconds.  7. Pull the push button at the E-Stop out. This will restore all the Guard Link Taps to solid green lights on top and bottom.  8. Reset Control Power at Operator Pushbutton Station.  9. Reset Machine fault by pressing the Start button. (if you do not do this step the next step will fall!)  10. Refresh Sort Server HMI fault pop-up and fault will clear.  11. Repeat Steps 5 thru 10 for each E-Stop on	Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	3
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fault will clear.  11. Repeat Steps 5 thru 10 for each E-Stop on			9.	button. (If you do not do this step the next					
			10.	· · · ·					
SRT-1: SORT MODULE.			11.	Repeat Steps 5 thru 10 for each E-Stop on SRT-1: SORT MODULE.					

D	14.	Table Otatamanta - 11 - 1 - 2	- ·	N 4:	<del>-</del>		
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		resholds	
Component	INO	(Comply with all current safety precautions)	Req	Lev	Run Hours	Pieces Fed	⊢req.
			(min)		nouis	(000)	
		12. Repeat Step 11 for all Sort Modules on				/	
		machine.					
		13. End Maintenance sortplan.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
		Note: Time is per module, each Sort Module contains 8 runout chutes, 4 on each side.					
SRT-1/DRIVE END: EMERGENCY	96**	Check All SRT-1: DRIVE END E-Stops (Power On)	10	09			М
STOP(S)		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		NOTE					
		When performing this step, check only one emergency stop switch with machine running. Check all other E-Stop switches while machine is stopped.					
		Load Maintenance <b>Fan Sort</b> sort plan on the Sort Server.					
		<ol><li>Check that System Start button is flashing green (Ready to Start).</li></ol>					
		<ol> <li>Start Machine by holding the Start button at the Operator Pushbutton Station pressed until the horns sound.</li> </ol>					
		4. Allow machine to start running.					
		5. Push an SRT-1: DRIVE END E-Stop button.					
		6. Check E-Stop functionality:					
		a. If running, machine will stop immediately.					
		<ul> <li>E-Stop button lights up indicating it is pressed.</li> </ul>					
		c. All Stack Lights indicate solid red.					
		d. The Guard Link Tap for this E-Stop displays solid red.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	5
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run Hours	Pieces Fed	Freq.
			(min)	201	Tiours	(000)	
		<ul> <li>e. All other Guard Link Taps along the same side of the machine are flashing a green light on top with a solid red light on bottom.</li> </ul>					
		f. The Sort Server HMI displays an E-Stop fault. (If Fault Status Pop-up is not active on the HMI display, click on the red E- Stop bit status line in the upper right corner of the screen.)					
		<ul> <li>g. The machine will not start by holding the Start button pressed for 4 seconds.</li> </ul>					
		7. Pull the push button at the E-Stop out.					
		8. This will restore all the Guard Link Taps to solid green lights on top and bottom.					
		Reset Control Power at Operator Pushbutton     Station.					
		<ol> <li>Reset Machine fault by pressing the Start button. (If you do not do this step the next step will fail!)</li> </ol>					
		11. Refresh Sort Server HMI fault pop-up and fault will clear.					
		12. Repeat Steps 5 thru 11 for each E-Stop on SRT-1: DRIVE END.					
		13. End Maintenance sortplan.					
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/END CHUTE:	97**	Check All SRT-1: END CHUTE E-Stops (Power On)	15	09			М
EMERGENCY STOP(S)		WARNING					
3101(3)		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		NOTE					
		When performing this step, check only one emergency stop switch with machine running. Check all other E-Stop switches while machine is stopped.					
		Load Maintenance <b>Fan Sort</b> sort plan on the Sort Server.					

Part or	Item		Task Statement and Instruction	Est.	Min.	Th	resholds	5
Component	No		(Comply with all current safety precautions)	Time Req	Skill Lev	Run Hours	Pieces Fed	Freq.
				(min)		Tiours	(000)	
		2.	Check that System Start button is flashing green (Ready to Start).					
		3.	Start Machine by holding the Start button at the Operator Pushbutton Station pressed until the horns sound.					
		4.	Allow machine to start running.					
		5.	Push an SRT-1: END CHUTE E-Stop button.					
		6.	Check E-Stop functionality:					
			a. If running, machine will stop immediately.					
			<ul> <li>E-Stop button lights up indicating it is pressed.</li> </ul>					
			c. All Stack Lights indicate solid red.					
			<ul> <li>d. The Guard Link Tap for this E-Stop displays solid red. (Located under the run- out chutes.)</li> </ul>					
			e. All other Guard Link Taps along the same side of the machine are flashing a green light on top with a solid red light on bottom.					
			f. The Sort Server HMI displays an E-Stop fault. (If <b>Fault Status</b> Pop-up is not active on the HMI display, click on the red E-Stop bit status line in the upper right corner of the screen.)					
			g. The machine will not start by holding the Start button pressed for 4 seconds.					
		7.	Pull the push button at the E-Stop out.					
		8.	This will restore all the Guard Link Taps to solid green lights on top and bottom.					
		9.	Reset Control Power at Operator Pushbutton Station.					
		10.	Reset Machine fault by pressing the Start button. (If you do not do this step the next step will fail!)					
		11.	Refresh Sort Server HMI fault pop-up and fault will clear.					
		12.	Repeat Steps 5 thru 11 for each E-Stop on SRT-1: END CHUTE.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	S
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run Hours	Pieces Fed	Freq.
			(min)	,	riours	(000)	
		<ol> <li>Note any deficiencies and generate a work order/report them to supervisor.</li> </ol>					
SRT-1/END CHUTE: SENSOR(S)	98**	Check SRT-1 /End Chute Sack Trap Sensor (SRT1.STS) at the Drive/Head End of SRT1 (Power On)	7	09	182	455	
		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		<ol> <li>With the sorter running, use a piece of paper or cardboard to block the sensor, creating a jam.</li> </ol>					
		2. Check Jam functionality:					
		<ul> <li>a. The SRT-1 Conveyor stops after 5 seconds.</li> </ul>					
		b. Sack Trap Sensor jam is displayed on the HMI.					
		c. The IND-1 Stack Light are blinking red.					
		<ul> <li>d. The SRT-1 End Chute Stack Lights are blinking red, amber, and green.</li> </ul>					
		e. Control power light indicator is illuminated white.					
		f. Machine will not start until jam situation is cleared after stopping.					
		3. Remove the obstruction causing the jam.					
		Push the green system Start button on Operator Pushbutton Station to start machine again.					
		5. Stop Machine					
		Note any deficiencies and generate a work order/report them to supervisor.					
SRT-1/END CHUTE: SENSOR(S)	99**	Check SRT-1/End Chute Full Line Sensor (SRT1.FLS) at the Drive End of SRT-1 (Power On)	7	09	182	455	
, ,		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	Freq.
			Req (min)	Lev	Hours	Fed (000)	
		<ol> <li>With the sorter running, use a piece of paper or cardboard to block the sensor creating a Full Line End Chute situation.</li> </ol>				, /	
		2. Check functionality:					
		<ul> <li>The SRT-1 Conveyor stops after 10 seconds.</li> </ul>					
		<ul> <li>End Chute Full Line Sensor fault is displayed on the HMI.</li> </ul>					
		c. The IND-1 Stack Light are blinking red.					
		<ul> <li>d. The SRT-1 End Chute Stack Lights are blinking red, amber, and green.</li> </ul>					
		e. Control Power On button is illuminated white.					
		<ul> <li>f. Machine will not start until the Full Line situation is cleared after stopping.</li> </ul>					
		3. Remove the obstruction causing the jam.					
		Push the green system Start button on Operator Pushbutton Station to start machine again.					
		5. Stop machine.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
SRT-1/END CHUTE: SENSOR(S)	100**	Check SRT-1 End Chute Cart Present Sensor (SRT1.CPS) at the end cage of SRT1 (Power On)	7	09	182	455	
		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		<ol> <li>With the machine running, remove container to check the container present sensor.</li> </ol>					
		2. Check functionality:					
		a. The machine will stop after 3 seconds.					
		<ul> <li>b. Sorter 1 Cart Presence Sensor Fault (SRT1.CPS) is displayed on the HMI.</li> </ul>					
		c. IND-1 Stack Light is blinking red.					
		<ul> <li>d. The SRT-1 End Chute Stack Lights are blinking red, amber, and green.</li> </ul>					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	
Component	No	(Comply with all current safety precautions)	Time	Skill	Run	Pieces	
·			Req	Lev	Hours	Fed	
			(min)			(000)	
		e. Control power light indicator is illuminated white.					
		<ul> <li>f. Machine will not start without Cart Present.</li> </ul>					
		3. Replace Cart.					
		Push the green system Start button on Operator Pushbutton Station to start machine again.					
		5. Stop machine.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
SRT-1/END CHUTE: SENSOR(S)	101**	Check SRT-1/End Chute Discharge Verification Sensor (SRT1.DVS) at the Drive End of SRT-1 (Power On)	7	09	182	455	
		WARNING					
		Activities in this bulletin require work to be performed with the equipment powered on. Be cautious when working around or on equipment when power has been applied.					
		1. With the sorter running, use a piece of paper or cardboard to block the sensor creating jam situation.					
		2. Check Jam functionality:					
		<ul> <li>The SRT-1 Conveyor stops after 3 seconds.</li> </ul>					
		<ul> <li>End Chute Divert Verification Jam fault is displayed on the HMI.</li> </ul>					
		c. The IND-1 Stack Light are blinking red.					
		<ul> <li>d. The SRT-1 End Chute Stack Lights are blinking red, amber, and green.</li> </ul>					
		e. Control Power On button is illuminated white.					
		<ul> <li>f. Machine will not start until jam situation is cleared after stopping.</li> </ul>					
		3. Remove the obstruction causing the jam.					
		Push the green system Start button on Operator Pushbutton Station to start machine again.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run Hours	Pieces Fed	Freq.
			(min)	LOV	Hours	(000)	
		5. Stop machine.					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>					
SORT SERVER	102	Check Sort Server HMI	10	10	42	105	
CART: SORT SERVER		NOTE					
		Task to be performed a minimum of twice during operational tours.					
		<ol> <li>View Sort Server computer sort status screen, and latest <b>SORLog</b> report files under the report button in the lower right corner of the screen, for production totals and rejects to identify abnormal performance such as low read rate, excessive mechanical rejects, excessive jams, low throughput, etc.</li> </ol>					
		<ol> <li>View the latest EventLog file from the ADUSViewer application on the Sort Server desktop.</li> </ol>					
		3. Return Sort Server to Operations HMI screen.					
		<ol> <li>Check Machine Bin Status diagram at bottom of screen for excessive "FULL" or "SWEEPING" status bins.</li> </ol>					
		5. Make note in logbook,					
		Observer's Name					
		Date and Time					
		Machine Throughput					
		<ul> <li>Number of bins being/needing swept</li> </ul>					
FINAL-CLEANUP	103**	Clean Up	15	All			
		<ol> <li>Ensure all tools, lubricants, rags, etc., are removed from the work area.</li> </ol>					
		<ol><li>Note any deficiencies and generate a work order/report them to supervisor.</li></ol>				_	

# **ATTACHMENT 3**

## SIPS MASTER CHECKLIST

### 09-SIPS-XX-001-M

# **OPERATIONAL MAINTENANCE (OM)**

Time Total: (###) minutes

U.S. Postal Service		IDENTIFICATION														
Maintenance Checklist		WORK CODE		_		MEN NYNC	-			CLASS CODE		NUMBER			TYPE	
	0	9	S	ı	Р	S					Χ	Х	0	0	1	М
Equipment Nomenclature Single Induction Package Sorter			Equipment Model					Bulletin Filename mm23000			Э	Occurrence eCBM			_	

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	6
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
SAFETY STATEMENT	1	COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shut down and lock out this machine. Check for suspicious dust or unusual debris. If any unusual substance is found, notify supervisor prior to proceeding with any further action on the equipment.  THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.  When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner or a damp rag must be used in place of compressed or blown air. A lint-free cloth or brush may be used on optical equipment only when other cleaning methods cannot be used. Report safety deficiencies to your supervisor immediately upon detection.  WARNING FOR EWP/PPE: Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO or appropriate EWP PPE and barricade requirements.  WARNING FOR SDS: 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.	1	All			

Tasks marked with one asterisk after the time required are per units tasks
Tasks marked with two asterisks after the item number are critical tasks

Part or	Item		Task Statement and Instruction	Est.	Min.		resholds	1
Component	No		(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
				(min)	LCV	Hours	Fed (000)	
ENTIRE MACHINE:	2	Мо	nitor equipment condition.	15	09			Т
VERIFY OPERATION			NOTE					
			sk to be performed a minimum of twice ring operational tours.					
		1.	Check maintenance logbook for any outstanding issues.					
		2.	Ask operators (feeders and sweepers) and operations supervisor if they are aware of any equipment problems.					
		3.	Check reported problems.					
		4.	While machine is running and sorting mail check the Air Pressure Sensor to read 42-58psi with minimal fluctuation for 2 minutes minimum.					
		5.	Walk Machine listening for:					
			a. Noisy Bearings					
			b. Noisy S7000 belt at Tail End and Drive End sprockets. Possible Disengagement.					
			c. Air leaks along sort sides of machine.					
			d. Abnormal noises during diverts. banging louder or quieter than nearby Rack and Rolls, hissing, missed divert of 1 assembly in a cluster, etc.					
		6.	Check Photo eye transitions while mail passes for full changes of state with no flickering between packages.					
			a. Pre-Cognition Sensor IND-1					
			b. Dimension Height Array DWS-2					
			c. Dimension Width Array DWS-2					
			d. Dimension Height Tower DWS-2					
			e. Product Jam Sensor DWS-2					
			f. Tail End Sensor IFS-2/Curve (If equipped.)					
			g. Tail End Sensor (TES)Tail End Module					
			h. Discharge Verify Sensor End Chute/Drive Module					
			i. Full Line Sensor End Chute/Drive Module					
		7.	Note deficiencies in logbook.					

Part or	Item	Task Statement and Instruction	Est.	Min.	Th	resholds	3
Component	No	(Comply with all current safety precautions)	Time Rea	Skill Lev	Run Hours	Pieces Fed	Freq.
			(min)		Tiours	(000)	
		<ol> <li>Work with Operations and Maintenance Managements to schedule a time to repair deficiencies found.</li> </ol>					