MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE

Maintenance Management Order POSTAL SERVICETM

SUBJECT: Update Operational, Predictive, & Preventive

Maintenance Guidelines for Delivery Bar Code Sorter (DBCS) Phase 6 using eCBM

NO: MMO-049-16

DATE: July 19, 2016

TO: Maintenance Managers DBCS 6 Offices FILE CODE: D17

gmar:mm14116ab

	Online Change Record											
Change #												
2	Added the Infrared Thermography information after the online											
		change record.										
1	7-28-17	Updated roll-up table in Attachment 1.										

Infrared Thermography Information for DBCS Based Sorting Equipment – Plug and Receptacle Connectors is located at MTSC>HELPDESK>Service Portal>Knowledge Base>KB0013384.

This Maintenance Management Order (MMO) provides Operational, Predictive, and Preventive Maintenance Guidelines for the Delivery Bar Code Sorter Phase 6 and supersedes MMO-016-13. The acronym is DBCS and the class code is BA.

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

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

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

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

WARNING

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

WARNING

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

Direct any questions or comments concerning this bulletin to the MTSC HelpDesk, online at https://tickets.mtsc.usps.gov/login.php or call (800) 366-4123.

Kevin Couch Manager

Maintenance Technical Support Center

HQ Maintenance Operations

- Attachments 1. Summary Workload Estimate
 - Master Checklist: 03-DBCS-BA-001-M: Power OFF and Power ON Tasks
 - 3. Master Checklist: 09-DBCS-BA-001-M: Operational Maintenance

ATTACHMENT 1

FOR DBCS 6

SUMMARY
WORKLOAD ESTIMATE

SUMMARY WORKLOAD ESTIMATE FOR DBCS 6

Number of Processed	mail pieces		SUMMARY WORK LOAD ESTIMATES FOR DBCS - BA									
>		58,000,000	High end es	<u>timate</u>	For a 110 Stac	ker Machine		_				
Operation	Routine Servicing	Repair	Routine	Non- Productive	Total	Operation	al Maintenand Servicing	ce + Total				
Days	per	Time per	Servicing + Repair	Time per	Servicing per	1 Tour	2 Tours	3 Tours				
	Machine	Machine	Time	Machine	Machine	Hrs/Yr	Hrs/Yr	Hrs/Yr				
	(Hrs/Yr)	(Hrs/yr) *	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	OpM x 1	OpM x 2	ОрМ х 3				
5 Days	548.13	164.44	712.57	71.26	783.83	983.16	1,182.50	1,381.83				
6 Days	623.53	187.06	810.59	81.06	891.65	1,130.85	1,370.05	1,609.25				
7 Days	698.93	209.68	908.61	90.86	999.47	1,278.54	1,557.60	1,836.67				
*	Repair maintenance estimates based on 30% of preventive maintenance.											
** Based on 10% of total PM and repair.												
		THRESHOL	.DS and PM T	IME SUMMARY	Hrs PER Year	OPERATION	AL MAINTEN	ANCE				
			Daily	527.80		46 MIN. PER	ACHINE					
			Monthly	8.20		One Tour	Two Tours	Three Tours				
			1,100,000	97.58	5 Day	199.33	398.67	598.00				
			2,200,000	15.68	6 Day	239.20	478.40	717.60				
			4,400,000	33.76	7 Day	279.07	558.13	837.20				
			14,300,000	3.28								
			20,000,000	10.49								
			57,200,000	2.14								

	Mach										
# of				Non-		Operational Maintenance +					
Stackers	Routine	Repair	Routine	Productive	Total	Total Servicing					
	Servicing	Time	Servicing		Servicing						
	per	per	+ Repair	Time per	per	1 Tour	2 Tours	3 Tours			
	Machine	Machine (Hrs/yr)	Time	Machine	Machine	Hrs/Yr OpM x	Hrs/Yr OpM x	Hrs/Yr OpM x			
	(Hrs/Yr)	*	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	1	2	3			
110	548.13	164.44	712.57	71.26	783.83	983.16	1182.50	1381.83			
126	567.48	170.24	737.72	73.77	811.49	1010.82	1210.16	1409.49			
142	582.37	174.71	757.08	75.71	832.79	1032.12	1231.46	1430.79			
158	597.31	179.19	776.51	77.65	854.16	1053.49	1252.83	1452.16			
174	612.19	183.66	795.84	79.58	875.42	1074.75	1274.09	1473.42			
190	631.57	189.47	821.05	82.11	903.16	1102.49	1301.83	1501.16			
206	646.45	193.93	840.38	84.04	924.42	1123.75	1323.09	1522.42			
222	661.40	198.42	859.82	85.98	945.80	1145.13	1344.47	1543.80			
238	676.26	202.88	879.14	87.91	967.05	1166.38	1365.72	1565.05			
254	695.45	208.64	904.09	90.41	994.50	1193.83	1393.17	1592.50			
270	710.34	213.10	923.44	92.34	1015.78	1215.11	1414.45	1613.78			
286	725.30	217.59	942.89	94.29	1037.18	1236.51	1435.85	1635.18			
302	740.16	222.05	962.21	96.22	1058.43	1257.76	1457.10	1656.43			

	Mach									
# of				Non-			onal Mainte			
Stackers	Routine	Repair	Routine	Productive	Total	Total Servicing				
	Servicing	Time	Servicing	T'	Servicing	4. Т	O T	O. T		
	per	per	+ Repair	Time per	per	1 Tour	2 Tours	3 Tours		
	Machine	Machine (Hrs/yr)	Time	Machine	Machine	Hrs/Yr OpM x	Hrs/Yr OpM x	Hrs/Yr OpM x		
	(Hrs/Yr)	*	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	1	2	3		
110	623.53	187.06	810.59	81.06	891.65	1130.85	1370.05	1609.25		
126	644.61	193.38	837.99	83.80	921.79	1160.99	1400.19	1639.39		
142	660.37	198.11	858.48	85.85	944.33	1183.53	1422.73	1661.93		
158	676.18	202.85	879.03	87.90	966.93	1206.13	1445.33	1684.53		
174	691.92	207.58	899.50	89.95	989.45	1228.65	1467.85	1707.05		
190	713.04	213.91	926.95	92.70	1019.65	1258.85	1498.05	1737.25		
206	728.78	218.63	947.41	94.74	1042.15	1281.35	1520.55	1759.75		
222	744.60	223.38	967.98	96.80	1064.78	1303.98	1543.18	1782.38		
238	760.33	228.10	988.43	98.84	1087.27	1326.47	1565.67	1804.87		
254	781.25	234.38	1015.63	101.56	1117.19	1356.39	1595.59	1834.79		
270	797.01	239.10	1036.11	103.61	1139.72	1378.92	1618.12	1857.32		
286	812.83	243.85	1056.68	105.67	1162.35	1401.55	1640.75	1879.95		
302	828.56	248.57	1077.13	107.71	1184.84	1424.04	1663.24	1902.44		

	Mach										
# of Stackers	Routine	Repair	Routine	Non- Productive	Total	Operational Maintenance + Total Servicing					
	Servicing per	Time per	Servicing + Repair	Time per	Servicing per	1 Tour	2 Tours	3 Tours			
	Machine	Machine (Hrs/yr)	Time	Machine	Machine	Hrs/Yr OpM x	Hrs/Yr OpM x	Hrs/Yr OpM x			
	(Hrs/Yr)	*	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	1	2	3			
110	698.93	209.68	908.61	90.86	999.47	1278.54	1557.60	1836.67			
126	721.74	216.52	938.27	93.83	1032.10	1311.16	1590.23	1869.30			
142	738.37	221.51	959.88	95.99	1055.87	1334.93	1614.00	1893.07			
158	755.05	226.51	981.56	98.16	1079.72	1358.78	1637.85	1916.92			
174	771.65	231.50	1003.15	100.32	1103.47	1382.53	1661.60	1940.67			
190	794.51	238.35	1032.86	103.29	1136.15	1415.21	1694.28	1973.35			
206	811.11	243.33	1054.45	105.45	1159.90	1438.96	1718.03	1997.10			
222	827.80	248.34	1076.14	107.61	1183.75	1462.82	1741.89	2020.95			
238	844.40	253.32	1097.72	109.77	1207.49	1486.56	1765.63	2044.69			
254	867.05	260.12	1127.17	112.72	1239.89	1518.95	1798.02	2077.09			
270	883.68	265.10	1148.78	114.88	1263.66	1542.72	1821.79	2100.86			
286	900.36	270.11	1170.47	117.05	1287.52	1566.58	1845.65	2124.72			
302	916.96	275.09	1192.05	119.21	1311.26	1590.32	1869.39	2148.46			

Repair maintenance esti	mates based on	30.00%	of preventive maintenance.
	Based on	10.00%	of total PM and repair.

			Power	Off Task	s			
	Threshold ->	3K	1.1M	2.2M	4.4M	4.4M	57.2M	
	Item # ->	5	8	9	10	19	20	
	110	9	35	36	113	21	70	
	126	1	5	3	10	3	10	
	142	2	10	6	20	6	20	
	158	3	15	9	30	9	30	
	174	4	20	12	40	12	40	
	190	5	25	15	50	15	50	
# Stackers	206	6	30	18	60	18	60	Minutes
Stackers	222	7	35	21	70	21	70	
	238	8	40	24	80	24	80	
	254	9	45	27	90	27	90	
	270	10	50	30	100	30	100	
	286	11	55	33	110	33	110	
	302	12	60	36	120	36	120	

			Power	On Task	 S			
	Threshold ->	1 Month	1K	1.1M	14.3M	14.3M	20M	
	Item # ->	22	21	28	29	30	23	
	110	18	8	7	14	20	219	
	126	2	1	1	2	2	10	
	142	4	1	2	2	4	20	
	158	6	1	3	3	6	30	
	174	8	1	4	3	8	40	
,,	190	10	2	5	4	10	52	
# Stackers	206	12	2	6	4	12	62	Minutes
Stackers	222	14	2	7	5	14	72	
	238	16	2	8	5	16	82	
	254	18	3	9	6	18	90	
	270	20	3	10	6	20	100	
	286	22	3	11	7	22	110	
	302	24	3	12	7	24	120	

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ATTACHMENT 2

DBCS 6 MASTER CHECKLIST

03-DBCS-BA-001-M

POWER OFF AND POWER ON TASKS

Time Total: See roll-ups in Attachment 1.

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	WORK EQUIPME CODE ACRONY							-	CLASS CODE				NUMBER			TYPE
	0	3	D	В	С	S					В	Α	0	0	1	М
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equipment Model					В	Bulletin Filename mm14116				Occuri		СВМ			

Part or	Item	Task Statement and Instruction		Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)		Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
SAFETY STATEMENT	1.	COMPLY WITH ALL SAFETY PRECAUTIOD Disconnect power and apply lockouts or required by this instruction. Refer to culocal lockout procedures to properly down and lock out this machine. Concequipment and inspect dust condition Check for suspicious dust or unusual delif any unusual substance is found in supervisor prior to proceeding with further action on the equipment.	when irrent shut Open cions. ebris.	1	All			
		THE USE OF COMPRESSED OR BLOWN IS PROHIBITED. When cleaning is required, an altern cleaning method such as a HEPA filt vacuum cleaner or a damp rag must be in place of compressed or blown air. A free cloth or brush may be used on op equipment only when other cleaning methor cannot be used. Report safety deficiencing your supervisor immediately upon detecti	eative tered used lint- otical hods es to					
		WARNING FOR EWP/PPE: Steps contained in this bulletin may recthe use of Electrical Work Plan (Electrical Personal Protective Equipment (PPE). For the current EWP MMO for appropriate PPE and barricade requirements.	EWP) Refer					
DBCS SYSTEM: REPORT ANALYSIS	2.	Generate, print, or view End of Day Tracking Report.	and	4	10		1	
7447421010		Prior to performing the power down lockout procedures, analyze data provided on these reports to determine if any areas of machine degraded or in need of attention.						
DBCS SYSTEM: COMPUTERS	3.	Shut down the DBCS System according to procedures as outlined in the most recent documentation; presently the MS-254.		1	9		1	
		As of the date of this writing the detailed step properly shut down the system are in MS Handbook MS-254, Volume B, Section 5.2.2.						
		NOTE						
		If any problems are encountered whi performing these procedures report the to your supervisor.						

U.S. Postal Service		IDENTIFICATION														
Matatanana Objection	WC	RK	EQUIPMENT								CLA	NUMBER			TYPE	
Maintenance Checklist	CO	DE				ACRO	MYM				CO	DE				
	0	3	D	В	С	S					В	Α	0	0	1	M
Equipment Nomenclature	Equ	Equipment Model					В	Bulletin Filename			(Occurrence				
Delivery Bar Code Sorter Phase 6							mm14116				eCBM					

F							
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	3
Component	140	(Some) man an outront salety procautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
DBCS SYSTEM:	4.	Power down and lock out power.	1	All		1	
POWER DOWN			•	- ***			
		WARNING					
		Electrical power will always be present at the input of the disconnect device unless the circuit is disabled at the facility power distribution panel located at					
		Power down the machine and lock out its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures.					
DBCS SYSTEM:	5.	Mail search.	9	7		3	
MAIL SEARCH		Remove all machine panels, except for diverter plate cover assemblies (Wimpy panels) and stacker lower front panel assemblies.					
		 Ensure each cover's gas spring and retaining clip is able to hold cover in uppermost position. Report defective components to supervisor or perform work order. 					
		 Search all base plate areas and module interiors for mail. 					
		4. Remove any mail pieces found.					
		Remove any large amounts of debris while doing this mail search to prevent clogging of the vacuum when doing vacuuming tasks.					
		Follow local procedures for returning mail to operations for processing.					
DBCS SYSTEM:	6.	Vacuum/clean machine.	30	7		60	
VACUUM/CLEAN 1		WARNING Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral-stacking auger.					

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Maintenance Checklist		DRK DDE			_		MEN ONYN	-			_	ASS DE	N	UMB	ER	TYPE
Mantenance Oncokiist	0	3	D	В	С	S	NY NI	l			В	A	0	0	1	М
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equ	ipme	nt Mo	del				В			name 4116		Occur		СВМ	

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	s
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)		Hours	Fed (000)	
		WARNING					
		Use extreme caution in area of pocket assembly wear plate. On some machines, wear plate extends past edge of its base and into stacker area, exposing sharp edges.					
		WARNING					
		Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.					
		While performing this task, check for loose, cracked, or damaged hinges in Reader Module. Notify supervisor if problem is found.					
		Vacuum and clean internal and base-plate areas of the machine starting at the front of stacker module #1, and proceed toward the feeder and around the machine to end up and include the rear of stacker module #1. In the process of doing this, ensure the following areas are cleaned:					
		1. P-DZ90 and P-LED10 assemblies.					
		2. Outside surfaces of jogger assembly.					
		Exterior of monitor, keyboard, printer, and printer stand.					
		 Ensure laser printer has an adequate amount of paper for three tours of operation, add paper if necessary by following instructions in most current MS-254. 					
		a. Open paper tray.					
		b. Fill paper tray with paper.					
		c. Close paper tray.					
		Reader, Elevator, and Transition Module 5V power supply and light barriers.					
		Exterior of the System Computer and the WFOV Processor.					
		7. Tray label printers cleaning and label stock					

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist											_		N	UMBI	ER	TYPE
Maintenance Checkist	CC	DE				ACRO	JNYM				CC	DE				
	CODE ACRON						В	Α	0	0	1	M				
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equ	ipmeı	nt Mo	del				В			name 4116		Occur		СВМ	

Part or	Item	Task Statement and Instruction	Est.	Min.	-	Thresholds	3
Component	No	(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
			(min)		Hours	Fed (000)	
		loading.					
		a. Clean/Vacuum interior and exterior of					
		label printers, located on first and eighth stacker modules.					
		 Ensure label printers are loaded with a sufficient supply of label material to support three tours of operation. If required, load the label printer: 					
		 Insert label stock between guides into back of label printer. 					
		Place wide end of label stock into label printer first, face down.					
		3) Push print head lever back.					
		 Push label stock through until it comes out front of label printer. 					
DBCS SYSTEM: VACUUM/CLEAN 2	7.	Clean and/or vacuum the following areas of the machine:	10	7		173	
		WARNING					
		Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.					
		 Vacuum/clean the vacuum pump air filter located in bottom of feeder module. 					
		 Clean ICS-3 system (Verifier) electronic enclosure. Clean interior of ICS-3 electronic enclosure and electronic enclosure filters. Clean ICS-3 system (Verifier) read head. 					
		 Clean ICS-3 read head. Recommended cleaner is Riptide, PSN 6850-01-394- 0164. 					
		 b. Clean read head reflector. Recommended cleaner is Riptide. 					
		3. Clean WFOV Assembly.					
		WARNING					
		Use extreme caution when working					

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Maintenance Checklist		DRK DDE					MEN ONYN				_	ASS DE	NUMBER 0 0 1 Occurrence eCBM	TYPE		
	0	3	D	В	С	S					В	A	0	0	1	М
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equ	ipme	nt Mo	del	•	•		Е			name 4116		Occur			

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	3
Component	NO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		around the WFOV aperture. The edges of the aperture may become extremely sharp during use of the DBCS.					
		 Following safety precautions, remove the Aperture/Illumination assembly. Loosen the thumbscrew on top and pull straight up to remove. Check the aperture plates and sapphire glass for foreign objects. 					
		b. Remove dust buildup on exterior of camera sapphire glass using dry cotton swabs. If adhesive buildup appears on the sapphire glass, use a swab or soft cloth wetted with an acceptable site approved cleaner.					
		c. If dust is found inside Aperture/ Illumination assembly, refer to most current MS-212, Appendix A for detailed cleaning instructions.					
		 d. Replace Aperture/Illumination assembly. Slide assembly straight down on front of camera head assembly and tighten thumbscrew. 					
DBCS SYSTEM: VACUUM/CLEAN 3 STACKERS	8.	Clean stacker modules 2 through to the end module by vacuuming, remove dust and debris as follows:	35	7		1100	
		WARNING					
		Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.					
		WARNING					
		Use extreme caution in area of pocket assembly wear plate. On some machines, wear plate extends past edge of its base and into stacker area, exposing sharp edges.					
		 Clean stacker modules #2 through the end of the machine, transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels. 					
		Ensure light barriers are clean.					

U.S. Postal Service								IDE	NTIF	CAT	ION					
Maintenance Checklist	WO	RK DE					MEN.				_	ASS DE	١	IUMB	ER	TYPE
	0	3	О	В	C	S					В	Α	0	0	1	М
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equi	ipmeı	nt Mo	del				В	ulletin n		name 4116		Occu	rence e	СВМ	

Bollvery Bar Code							
Part or	Item	Task Statement and Instruction	Est.	Min. Skill		Thresholds	6
Component	No	(Comply with all current safety precautions)	Time Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
DBCS SYSTEM: BELTS, ROLLERS,	9.	Check belts and rollers.	36	9		2200	
AND HARDWARE		WARNING					
		Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.					
		Starting at the front of stacker module #1, proceed toward feeder and around the machine to end up and include the rear of stacker module #1. Then proceed down the back of the stacker modules and around the front of the stacker modules to end at the front of stacker #2.					
		 Check all belts (drive and letter transport) for indications of wear. Create work order to replace worn, deformed, split, or torn belts. 					
		2. Check for broken or burred gate flags.					
		3. Write work orders as needed for replacement of belts and/or gates.					
		 Check all rollers (drive and idler) for proper adjustment and indications of wear and dirt buildup. Clean or replace rollers as necessary. 					
		Create work orders as needed for adjustments, cleaning, and/or replacement of rollers.					
DBCS SYSTEM: VACUUM/CLEAN 4		Perform the following steps to ensure all areas of the machine not covered in previous tasks are properly vacuumed and cleaned.	113	7		4400	
		WARNING					
		Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.					
		WARNING					
		Use extreme caution in area of pocket assembly wear plate. On some					

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Maintenance Checklist		DRK DDE					MEN ONYN				_	ASS DE	NUMBER 0 0 1 Occurrence eCBM	TYPE		
	0	3	D	В	С	S					В	A	0	0	1	М
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equ	ipme	nt Mo	del	•	•		Е			name 4116		Occur			

Delivery Bar Code Sorter	Filase 6	mm14116			ecain	
Part or Item	Task Statement and Instruction	Est.	Min.		Thresholds	,
Component No	(Comply with all current safety precaution	ns) Time	Skill	Run	Pieces	Freq.
		Req (min)	Lev	Hours	Fed	
	machines were plate extends next	o de o	1	 	(000)	
	machines, wear plate extends past of its base and into stacker					
	exposing sharp edges.					
	WARNING					
	Discard solvent soaked mate according to local procedures prevent pollution or spontancombustion.					
	While performing following tasks, do a vis check of wiring harnesses, cabling, and connectors for wear, loose connections, e if any problems are found, write a work or do corrective maintenance. Open any ad doors including the plate cover assemblie (Wimpy Panels) in order to perform the fo cleaning steps.	etc., and der to ditional s				
	 Clean Feeder Module. Clean/vacuun plates, covers, doors, framework, etc. including the vibrator assembly. Verii vibrator motor power cord is not rubbi against frame. 	fy				
	Clean Transport Module. Clean all pl covers, doors, and framework.	ates,				
	RET - Clean/vacuum all plates, cover doors, and framework.	s,				
	CAUTION					
	Extreme care should be taken that regarding electro-static-disch (ESD) are strictly followed valued handling all printed circuit bosincluding those in logic racks, sy computers, etc. This includes the of wrist straps and ESD pads.	narge when ards, stem				
	 Using the Dust Containment Unit (PS 06-000-8366) or an ESD compatible (eBuy #58656), clean/vacuum system computer and WFOV. Remove cover system computer and WFOV process clean. Re-install covers. 	vacuum n rs from				
	Clean stacker modules. Clean/vacuu plates, covers, doors, framework, dive plate cover assemblies (Wimpy Pane	erter				

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Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	3
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		stacker display panels back and front side.					
DBCS SYSTEM:	11.	Vacuum/clean top of RET and Stacker	23	7			M
VACUUM/CLEAN 4		Modules.					
DBCS SYSTEM: SAFETY	12.	Verification of safety warning labels.	2	7		4400	
WARNING LABELS		NOTE					
		Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers.					
		 Verify feeder modules have safety warning labels present, correctly located and in good condition. 					
		Verify stacker modules have safety warning labels present, correctly located, and in good condition.					
		 Notify supervisor of missing or worn feeder/stacker safety warning labels and initiate a work order to replace or remove and replace as necessary. 					
DBCS SYSTEM:	13.	Clean and check for mail under machine.	58	7		57200	
UNDER MACHINE CLEAN/CHECK		 Remove foam strips from back side of machine and outer side of Feeder and Transport section. 					
		Using a flashlight, start at Transport and look for mail pieces under machine, proceed to check for mail to last stacker.					
		3. Remove any mail pieces found.					
		 Follow local procedures for returning mail to operations for processing. 					
		Starting at the backside of the last stacker work toward the Transport and Feeder sections cleaning and vacuuming any dust and debris found from under the machine.					
		6. Reinstall foam strips to backside of machine.					
FEEDER MODULE: HARDWARE	14.	Check feeder hardware items as follows:	1	9		173	
HAILDWAILE		NOTE					
		Generate a Work Order to replace as					

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	;
Component	140	(comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		required. Refer to the most recent MMO; currently MMO-106-17, Covering feeder alignment and performance adjustments. The current MS manual of this document is MS-254. 1. Teflon strip. 2. Rubber strippers. 3. Pick-off belts.					
FEEDER MODULE:	15.	Check Feeder alignments.	30	7		1100	
CHECK		NOTE If any discrepancies are found while performing this task, write a work order to do a full feeder alignment.					
		Check Feeder alignment (those steps that do not require power) in accordance with the most recent MMO, currently MMO-106-17, covering feeder alignment and performance adjustments.					
READER MODULE: MOTOR FILTER	16.	Clean motor power unit filter. Remove, clean, and replace filter on motor power unit.	1	7		1100	
READER	17.	WFOV foam roller check.	1	9		4400	
MODULE: WFOV FOAM ROLLER		Check WFOV foam roller in Reader module. Replace roller if necessary.					
READER MODULE: ENCODER		Replace Encoder (Tachometer) Tube Coupler and Hose Clamp. 1. Remove and replace the Encoder Tube Coupler (PSN 4730-10-000-5863) and Hose	10	9		14300	
		Clamp (PSN 4730-01-336-5495) located on the Reader Module Plate.					
		 If problems occur while doing these procedures notify your supervisor, and, if needed, generate a work order to resolve those problems. 					
STACKER MODULES: POWER SUPPLIES	19.	Stacker power supply cleaning. WARNING	21	9		4400	

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Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	5
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
STACKER MODULES: BUMPERS AND FOAM PADS	20.	Use non-metallic ends on the vacuum while cleaning the power supplies. 1. Remove covers on power supplies located in each stacker module. 2. Using an approved vacuum cleaner, clean inside of each power supply assembly. 3. Install covers. Check the Guide Bumper located on the Finger Guard of the Stacker Pocket Guide and the Foam Pad located on the Guide Assembly for all stacker pockets. NOTE For location references use the MS-254, Vol. C, Figure 11-29, Index 6, Bumper, urethane, adhesive backed (PSN-5340-13-000-4709) and for the Foam Pad (PSN 9320-08-000-1198) use MS-254, Vol. C, Figure 11-29, Index 10. These references were valid as of the date of this writing, as always use the most recent documentation available. 1. Check the Bumpers and Foam Pads to see if they are missing, damaged, and/or degraded in any way. 2. Make a list of Bumpers and Foam Pads as well as associated hardware needing replacement and their locations. 3. Generate a Work Order to replace the Bumpers and Foam Pads found and recorded in Steps 1 and 2 of this instruction.	70	9		57200	
DBCS SYSTEM: POWER UP	21.	Power Up DBCS system. 1. Power up preparation. a. Ensure tools and materials are removed from work area. b. Replace all machine panels. c. Close all machine doors and covers.	8	7		1	

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Component	INO	(Comply with all current safety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		WARNING Be cautious when working around or on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts. 2. Restore power to equipment as prescribed by current local procedure providing lockout/ restore procedures. To restore power, place the AC Power Distribution Panel Switch, 3A4S1 to ON position. Press POWER ON switch on operator control panel.					
DBCS SYSTEM: INTERLOCKS AND E-STOPS	22.	Check all system interlocks and emergency stop switches. WARNING Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.	18	7			M
		When performing this step, check only one interlock switch and one emergency stop switch with machine running. Check all other interlock and E-Stop switches while machine is stopped.					
		NOTE This task requires two people. Time is doubled for staffing purposes. Verify light conditions and warning sounds for each E-Stop and interlock. Start machine. Verify that when START switch is pressed, start-up warning indicators around sorter flash amber. At same time,					

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					Req (min)	Lev	Run Hours	Pieces Fed (000)	Fre
		SO Wa	art-up warning horns sound. The horns und for 5 seconds and go off, while arning indicators flash for a total of 10 conds. Machine runs.	S					
		fe	ess EMERG STOP mushroom switch or eder control panel assembly and note to lowing occurs:						
		a.	Machine stops immediately.						
		b.	Lamp lights in EMERG STOP switch	١.					
		C.	Red EMERG STOP indicator lights of appropriate system control panel color						
		d.	READY lamp goes out on system co panel.	ontrol					
		e.	Pressing Start pushbutton does not smachine.	start					
			eset EMERG STOP mushroom switch a te that following occurs:	and					
		a.	System READY lamp illuminates on system control panel.						
		b.	Red EMERG STOP indicator goes o appropriate system control panel colo						
		C.	Lamp goes out in module control par EMERG STOP switch.	nel					
		d.	Machine can now be started.						
		e.	Start machine. Verify that when STA switch is pressed, start-up warning indicators around sorter flash ambers same time, start-up warning horns so The horns sound for 5 seconds and off, while warning indicators flash for total of 10 seconds. Machine runs.	. At ound. go					
		f.	Open Reader module front panel doc and note that the following occurs:	or					
			1) Machine stops immediately.						
			 Red EMERG STOP indicator light on appropriate system control par column. 						
			3) READY lamp goes out on system	m					

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	;
Component	NO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		control panel.					
		 Pressing Start pushbutton does not start machine. 					
		g. Close Reader module front panel door and note that the following occurs:					
		 System READY lamp illuminates on system control panel. 					
		 Red EMERG STOP indicator goes out on appropriate system control panel column. 					
		h. Machine can now be started.					
		4. Without starting and stopping machine, check all remaining EMERG STOP mushroom switches one at time to ensure that each one causes actions as described in items 2-b, c, and d above to occur when pressed and actions described in items 3-a, b, and c above to occur when they are reset.					
		 5. Without starting and stopping machine, check interlocks one at a time, by opening of panel or door, to ensure that each one causes actions described in items 2-c and d above to occur when opened and actions described in items 3-a and c occur when panel or door closed. When an interlock is activated in stacker there will be an indication on stacker display panel. Red full bin lights will flash on top row of panel. When interlock is deactivated, lights will go out. 6. If any problems are found, notify supervisor. 					
						00000	
DBCS SYSTEM: PREDICTIVE MAINTENANCE	23.	Perform predictive maintenance tasks and procedures. WARNING	219	9		20000	
		Be cautious when working around or on equipment when power has been					

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Т	Thresholds	\$
Component	140	(comply with all called precadions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.	,				
		NOTE					
		While performing the predictive maintenance tasks, make a note of any area where excessive vibration, noise, and/or heat are detected. Initiate a work order to cover any annotated area that requires additional investigation.	/ , K				
		1. Prepare machine.					
		 Shut down the system in accordance v MS-254 Volume B, Section 5.2.2. 	with				
		 Perform power down and lock out procedures. Power down the machine and lock out its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures. 					
		c. Open covers and remove panels. Operall machine doors including Main AC Power Panel, Feeder Distribution Panel and Motor Distribution Panel. Open or remove all machine panels, this includ diverter plate cover assemblies (Wimppanels). Override interlock switches. Rear Main Power Unit must by-pass magnetic contacts for DBCS to run.	el, r les				
		WARNING					
		Be cautious when working around or on equipment when power has been applied.					
		d. Restore power to equipment as prescribed by the current local proceding providing lockout/restore procedures. restore power move the main disconne switch 3A4S1 to the ON position. Prest the POWER ON switch on the operator control panel to power up the DBCS.	To ect ss				

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Part or Component	Item No		Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	S
Component	140		(comply with all carrent salety presidence)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
			NOTE					
		mi	achine must have been running for a nimum of 15 minutes prior to doing the rasonic and infrared scans.					
		2. U	Itrasonic scans.					
			NOTE					
			e the Long Range Module (cone) on the ra-Probe when doing ultrasonic scans.					
		a.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Feeder, for excessive vibration and noise.					
		b.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Transport, for excessive vibration and noise.					
		C.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Reader module, for excessive vibration and noise.					
		d.	Use ultrasonic detector to monitor all bearing assemblies top and bottom of the Elevator for excessive vibration and noise.					
		e.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Transition module, for excessive vibration and noise.					
			NOTE					
		loa ke	acker work sheets are available for down and from MTSC Web site for use in eping track of location of bad bearings in acker modules.					
		f.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Stacker modules, Tiers 1-4 for excessive vibration and noise.					
		3. In	frared scans.					
		a.	Use non-contact infrared to scan Main Power Unit front and rear (magnetic					

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Part or	Item			Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No			(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
				interlock on panel), scan all terminal					
				connections and connector plugs.					
			b.	Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Feeder for abnormal temperature.					
			C.	Use non-contact infrared to monitor all terminal connections and connection plugs in the Feeder Distribution Panel for abnormal temperature.					
			d.	Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Transport for abnormal temperature.					
			e.	Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Reader, Elevator, and Transition modules for abnormal temperature.					
			f.	Use non-contact infrared to monitor all terminal connections and connector plugs in the Motor Distribution Panel for abnormal temperature.					
			g.	Use non-contact infrared to monitor all terminal connections and connector plugs in the Stacker Modules, Tiers 1-4 for abnormal temperature.					
		4.	Re	store equipment to ready status.					
			a.	Shut down the system in accordance with MS-254, Volume B, Section 5.2.2.					
			b.	Power down and lock out power. Power down the machine and lock out its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures.					
			C.	Replace all panels and doors. Ensure tools and materials are removed from work area. Replace all machine panels. Close all machine doors and covers.					
				WARNING					

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	3
Component	NO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		Be cautious when working around or on equipment when power has been applied. d. Restore power to equipment. Restore power to equipment as prescribed by the current local procedure providing lockout/restore procedures. To restore power, move the Main Disconnect Switch 3A4S1 to the ON position. Press the POWER ON switch on the operator control panel.					
FEEDER MODULE: ALIGNMENT	24.	Check Feeder alignment.	30	7		1100	
		NOTE Ensure all Feeder alignments requiring power are accomplished. NOTE This is a check of alignments in accordance with the below reference, if in the process of finding any areas out of specification write a work order in order to correct or do a complete feeder alignment. Check feeder alignment in accordance with the most recent MMO, currently MMO-106-17, covering feeder alignment and performance adjustments.					
READER MODULE: ICS ELECTRICAL ENCLOSURE	25.	WARNING Be cautious when working around or on equipment when power has been applied. Use the most recent MMO covering ICS ID Tag reader system electrical enclosure inspection to perform procedures on ICS reader in order to locate enclosures with defective power supplies, switches not configured properly, incorrect lamps, and lamps not installed properly. MTSC>BULLETINS>Bulletins by Year	10	10		4400	

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READER MODULE: WFOV ALIGNMENT	26.	Perform the following on the WFOV Re- Head Assembly on the DBCS. WARNING Be cautious when working around of equipment when power has applied.		10		4400	
		1. The WFOV Read Head Assembly (RF position-mounted on a spacer plate. OBCS, DIOSS, and CIOSS the space is secured to a mounting plate. Ensur Spacer Plate is properly aligned in accordance with the most recent documentation covering this procedur currently this will be MS-212 section 5.	On the r plate re the e,				
		 Perform the WFOV Installation Alignm accordance with the most recent documentation covering this procedur currently this will be MS-212 Section 8 	e,				
		If any problems require corrective acti write a work order to document the tin events associated with those problem	ne and				
ELEVATOR	27.	Power supply PS1 (5VDC Reader) adjust	stment. 5	9		14300	
MODULE: READER CARD CAGE		applied.	or on been				
		 Open Elevator lower left door. 					
		 Disengage card cage latch, carefull open card cage. Connect multimeter J30 pin 1(+) and J30 pin 7 (grd) of card cage backplane. 	leads to				
		 A reading of 5.1 VDC should be pre- not remove bottom cover, adjust, power supply potentiometer to o reading of +5.0 VDC (+0.1/-0.0 VDC). 	5 VDC btain a				
		 Swing card cage back into place, ma latch locks. Replace bottom cover 					

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		cage if removed, close elevator door.					
STACKER MODULES: SWITCHES	28.	Stacker bin-full switch checks. WARNING	7	7		1100	
		Be cautious when working around or on equipment when power has been applied. 1. Pull each stacker blade to its 3/4 full position and note that its associated red indicator on attacker module display report flowledge.					
		stacker module display panel flashes and stacker module horn beeps. Note defective stacker switches.					
		 Pull each stacker blade to its full position and note that its associated red indicator on stacker module display panel is illuminated and stacker module horn beeps. Note defective stacker switches. 					
		Verify the stacker blade rides smoothly on the guide rod.					
		 Notify supervisor of defective stacker switches and initiate a work order to repair or replace as necessary. 					
STACKER	29.	Power supply adjust PS1 5 volts (stackers).	14	9		14300	
MODULES: POWER SUPPLY 5V		WARNING					
50		Be cautious when working around or on equipment when power has been applied.					
		 Place multimeter leads with clips on connectors J10 and J11 of the stacker backplane. 					
		 A reading of 5.1 VDC should be present, if not adjust power supply potentiometer to obtain a reading of +5.0 VDC (+0.1/-0.0 VDC). 					
STACKER MODULES: GATE	30.	Gate and solenoid pusher assembly test.	20	9		14300.	
SOLENOID PUSHERS		WARNING					
		Be cautious when working around or on				1	<u> </u>

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Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		equipment when power has been applied. 1. Main Menu, select following maintenance test: Maintenance-Systems Tests-Stacker Module Test-Gate Activation Test. 2. At the Gate Activation Test screen select the following: Select Stackers-All, Select Gates-All, and Select Action-Sequence. NOTE Identify visually inoperative solenoid pusher assemblies and gates by viewing each stacker module one by one. 3. One stacker module will be tested at a time, energizing every gate and solenoid pusher assembly sequentially, repeatedly. By responding to the testing screen on the DBCS monitor and answering Yes or No, the test will move to the next stacker module. The testing will be identical for each stacker module. 4. Type T to begin-Start Test. 5. Verify gate and pusher solenoids are firing in each stacker. Also verify driver module LEDs are operating for each gate and pusher. Green LED is for power and amber LED blinks when a solenoid is to be energized. 6. Refer to safety bulletin MMO-035-04 for corrective procedures and additional information. 7. Exit maintenance menu.					
DBCS VALIDATION: MACHINE FUNCTIONS	31.	WARNING Be cautious when working around or on equipment when power has been applied. This task requires that the	4	9		3	

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		machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.					
		Turn Maintenance Mode switch on operator control panel to Maintenance Mode position.					
		 Start machine. Verify when START switch is pressed, start-up warning indicators around sorter flash amber. At the same time, start- up warning horns sound. The horns sound for 5 seconds and go off, while warning indicators continue to flash for a total of 10 seconds. 					
		 Perform a visual and audible check of the machine to verify there are no problems with belt tracking, bearing noise, inappropriate bin gate activity, or any indications of impending or existing machine problems. 					
		 Proceed to the end stacker and press the Emergency Stop button. Verify that the machine stops. 					
		5. If machine fails to stop, notify supervisor. Refer to the most recent MMO; currently MMO-002-03, dealing with this problem.					
		 De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel. 					
DBCS	32.	Check label printer. Verify label quality.	2	7		3	
VALIDATION: LABEL PRINTER		WARNING					
		Be cautious when working around or on equipment when power has been applied.					
		On label printer, press LINE FEED button one time. Label printer will print out test label.					
		Verify test label has good quality print (not blurred) and is readable to human eye.					
		3. If the quality of the print is unacceptable, write a work order to troubleshoot and/or					

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Maintananaa Chaaldiat	WO						MEN					ASS	Ν	UMBI	ĒR	TYPE
Maintenance Checklist	CO	DE				ACR(NYN				CO	DE				
	0	3	D	В	С	S				B A			0	0	1	M
Equipment Nomenclature	Equi	uipment Model						Е	Bulletii	n Filer	name		Occurrence			
Delivery Bar Code Sorter Phase 6								r	nm1	4116		eCBM				

Part or	Item	Task Statement and Instruction	Est.	Min.	-	Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		clean the thermal head using cleaning kit, PSN 7930-07-000-1593.					
DBCS VALIDATION: WFOV TEST DECK	33.	Run WFOV test deck, PSN 3915-06-000-8292, as follows: WARNING Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.	9	9		3	
		in moving parts.1. Set up machine in DBCS Mode.					
		 Set up machine in DBCS Mode. Load Run information. 					
		 Enter Operation number (750). 					
		4. Select F2 to accept.					
		 Load sort plan WFOV_TDK.EBF. 					
		Select "Start Mail Processing".					
		 Select Display ZIP/Pkts and On Line Display. 					
		8. Start machine and process WFOV test deck. Ensure WFOV has a GAR that equals 99% or greater. If the GAR is lower than 99%, check read reject bins for any test cards that may have unreadable bar codes. If necessary, perform a WFOV auto-calibration.					
		Verify the Certified Mail portion of the test deck sorts properly.					
		 If any additional time is needed to correct ZIP result discrepancies and/or GAR issues, including auto-calibration, initiate a work order. 					
DBCS	34.	ICS reader validation.	5	9		3	
VALIDATION: ICS STRESS DECK		WARNING					
		Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions					

U.S. Postal Service	IDENTIFICATION															
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Maintenance Checklist	CC	DE				ACR(NYNC				CO	DE				
	0	3	D	В	С	S					В	Α		0	1	М
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equ	quipment Model							Bulletin Filename mm14116				Occurrence eCBM			

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	3
Component	INO	(Comply with all current safety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.					
		Verify the ICS-3 reader as follows:					
		 Set machine up to run in DBCS mode, use sort plan ICSTSTI.ebf. 					
		From ON LINE MAIL PROCESSING screen, select Display ZIPs/Pkts.					
		3. From Select Display Option screen, select On-Line Display.					
		4. Start machine and run the stress deck, PSN 3915-10-000-6361.					
		 At on line display screen, verify that ICS-3 Reader detected all ID Tags present and they read same. 					
		6. Stop machine.					
		7. Retrieve and verify cards sorted correctly. Refer to the most recent MMO, currently, MMO-144-15, dealing with sorting problems.					
		8. Notify supervisor of any problems found.					
DBCS VALIDATION: UAA	35.	Verify that the OCR engine in the DBCS mode can intercept UAA mail.	9	9		1100	
INTERCEPT BARCODE		WARNING					
		Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.					
		 Using the Xanadu Test Deck, PSN 9310-08- 000-3864, P/N 66.1026.034-00, do the following: 					
		a From the Main Menu:					
		1) Select Mode Select.					
		2) Select DBCS.					

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	_	ORK ODE								_	ASS DE	NUMBER			TYPE	
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Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equ	uipment Model								n Filer nm1	name 4116	(Occurrence eCBM			

	,		_				
Part or	Item No	Task Statement and Instruction	Est. Time	Min. Skill		Thresholds	3
Component	INO	(Comply with all current safety precautions)	Req	Lev	Run	Pieces	Freq.
			(min)		Hours	Fed	
						(000)	
		3) Load Run Information.					
		4) Enter Operation Number (750).					
		5) Select F2 to accept.					
		 b Load a sortplan that has a confirmed UAA pocket assigned (ParsSpecial Pockets.ebf assigns pocket 39 for UAA). 					
		2. Start mail processing and run UAA test deck.					
		3. Print or view the End of Run report.					
		 Calculate the intercept rate (# confirmed UAA test pieces divided by the total # of test pieces fed, multiplied by 100). 					
		Verify that at least 90% of the UAA test deck was intercepted.					
		6. Log off the system computer.					
FINAL CLEAN UP	36.	Clean up.	2	ALL			
		Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to supervisor.					

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ATTACHMENT 3

DBCS 6 MASTER CHECKLIST

09-DBCS-BA-001-M

Operational Maintenance

Time Total: 46 minutes

Task Item Number	Basic Task	Times Done	Total Time
	Time Min.	During Tour	per Tour Min.
1	1	1	1
2	1	1	1
3	1	3	3
4	1	3	3
5	1	3	3
6	1	3	3
7	2	3	6
8	2	3	6
9	1	3	3
10	5	3	15
11	2	2	2
		Total OPM Time	46

MMO-049-16							Mai	intena	nce	Tec	hnic	al Sup	port C	enter	
U.S. Posta Maintenanc		klist	WORK CODE			ACRO	MENT	IDENTIF	ICATI	CI C	_ASS ODE	NU	IMBER	TYPE	
Equipment Nomenclatu Delivery Bar Code		Phase 6	0 9 Equipme	D E		S		Bulleti	n Filer mm4		A	Occurre	0 1 ence Tourly	M	
Part or Component	Item No	//	Task Comply wit	Stateme				unc)		Est. Time	Min. Skill		Threshold	S	
Component	140	(Somply wil	ur all cur	iciii sai	icty pi	cautio			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.	
SAFETY STATEMENT		COMPLY Disconner required local loc down ar equipmen Check fo f any u supervise further ac ITHE USE IS PROHI When cl cleaning vacuum in place free clotil equipmen cannot b your sup WARNING Steps co the use (PPE). I Plan (EV barricade	by this by this ckout per lock on suspice unusual or prioction on E OF CC IBITED. Ileaning methodology of competents of competen	rer and instructions out of course of subsections of the ed or a depresse ush make the ed subsection of the ed subsection of the ed of t	d apportion Literal proces L	oly lot. Reto process to process to the content of	rekou fer to fer to forope hine. con usua found g W BLO n alt HEPA must n air. ed or ning i eficie on det may e Eq ectric	ts who curred of curred of curred of curred of the curred	entent entent en s. is. ify ny IR ve ed ed nt-cal ds to i. ire enterk	1	All			Т	
DBCS OPM: MACHINE LOGBOOK		Be cal equipi applie machi to pre	the beginning of the operation, examine achine log. WARNING Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught												

NOTE

While performing listed operational maintenance tasks, be alert for unusual sounds, odors, or other indications of potential failure conditions in the machine.

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	WORK EQUIPMENT CODE ACRONY											ASS DE	N	UMBI	ĒR	TYPE
	0	9	D	В	С	S					В	Α	0	0	1	М
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equ	ipmer	nt Mo	del				В	Bulletin Filename mm14116				Occuri			

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	•	3	
Component	110	(comply with all current safety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		Examine log and document any unresolved problems from the previous tour.					
		NOTE					
		Operational checks must be made with machine processing mail in a normal operating mode.					
DBCS OPM: MACHINE SAFETY	3.	Every two hours observe warning horn and beacons.	1	9			Т
		Watch for proper operation of warning horn and beacons on machine start-ups.					
DBCS OPM:	4.	Every two hours check lamps.	1	9			Т
MACHINE INDICATOR LAMPS		Watch for proper functionality of indicator lamps used during normal machine operations. Correct deficiencies as soon as practical.					
DBCS OPM: OPERATORS	5.	Every two hours observe Feeder and check with operator.	1	9			Т
		Observe the Feeder operation and inquire if operators are having excessive processing problems. Investigate as necessary. Initiate corrective action as appropriate.					
DBCS OPM: VIDEO DISPLAY	6.	Every two hours check mail processing screen.	1	9			Т
TERMINAL WFOV		 Check current Accept Rate Value on the GUI to ensure the sort plan, operating mode, and Accept Rate is correct for the mail being processed in accordance with the following: 					
		a. Operation 918 and 919 - 99.1% GAR					
		b. All other Operations 98.8% GAR					
		2. If MAR or GAR is below acceptable values:					
		 a. Check for degraded image and/or dust/debris accumulations on WFOV faceplate by observing the thumbnail image on the upper left on the GUI. 					
		 b. If the image is degraded or if problems are noted take appropriate corrective action. 					

DBCS OPM:

COMPUTER

ACE/MKAT

LAPTOP

5

9

MMO-049-16								Maı	nte	nanc	<u>e lec</u>	hnic	al Sup	po	ort C	<u>enter</u>
U.S. Posta		IDENTIFICATION														
Maintenance Checklist			WORK EQUIPMENT CODE ACRONYM								LASS ODE	NUMBER			TYPE	
	0 9	D	В	С	S				В	Α	0	0	1	М		
Equipment Nomenclatu Delivery Bar Code	Equipment Model Bulletin File mm						ename 14116		Occurrence Tourly							
Part or Component	Item No	(Task Statement and Instruction (Comply with all current safety precautions)								Est. Time Req (min)	Min. Skill Lev	Run Hours	Pi	eshold eces Fed 000)	ls Freq.
DBCS OPM: OVERFLOW STACKER		Every Overflow Check ty determine malfuncti feeds, on path bloc found, an	r/Reject pe of made which a oning. (ne particulates)	il pre area(s Checl ular c oblem	ker. sent s) of k for ode, . Do	the ind a socur	overflomach icationingle inglement a	ow s nine ns c gate any	mig of do e, or prob	ht be ouble mail	2	9				T
DBCS OPM: SORTING STACKERS		Every tw Take a sa the addre pocket. uniform n and, if ne	ample from ess block Verify r nanner.	om at k ma nail ¡ Docu	leas tche oiece imer	st 5 s s the es e nt ar	stacke e sch enter ny pro	ers a eme	e for ker	that in a	2	9				T
DBCS OPM: READER, ICS-3			ressing excessiveded do	"alt- e ID the the lD tag dust,	tab" TAG follo g rea dirt,	on ER win ader and	the h ROR g: exteri debri	ost mes	VDT ssag	jes	1	9				T

to the aperture and to the raised portion of

2. Document any problems found, and, if needed, write a work order.

indicators displayed on the MPEWatch

1. Key Performance Indicators (KPI) report.

4. Take appropriate action to investigate and correct any abnormalities detected in viewing

Realtime Maintenance View Screen including

NOTE Access to KPI can be done by clicking on the hyperlink located in the column titled

10. Every 2 hours check all performance

the faceplate.

the following items:

"KPI%".

2. Unplanned Events. 3. DPS Information.

U.S. Postal Service		IDENTIFICATION														
Maintenance Checklist		ORK ODE	EQUIPMENT ACRONYM								CLASS CODE		NUMBER			TYPE
	0	9	D	В	С	S					В	Α	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6	Equipmen		nt Mo	odel				В	Bulletin Filena mm14					rence To		

Part or	Item	Task Statement and Instruction	Est. Time	Min.	Thresholds				
Component	mponent No (Comply with all current safety precautions)			Skill Lev	Run Hours	Pieces Fed (000)	Freq.		
		MPEWatch. Generate a work order for further maintenance actions if required.							
DBCS OPM: ADMINISTRATIVE			2	9			Т		
		Route sheet information.							
		Any work orders generated.							
		Make entries in Machine Logbook of any discrepancies found during the mail run.							
		Turn this information into Maintenance Supervision. Brief personnel coming on duty.							