

MAINTENANCE TECHNICAL SUPPORT CENTER  
HEADQUARTERS MAINTENANCE OPERATIONS  
UNITED STATES POSTAL SERVICE



# Maintenance Management Order

**SUBJECT:** Operational, Predictive, & Preventive  
Maintenance Guidelines for Delivery Bar  
Code Sorter (DBCS) Phase 6 with Letter  
Automation Update Phase 2 using eCBM

**DATE:** February 7, 2020

**NO:** MMO-131-19

**TO:** Maintenance Managers, LAUPH2 DBCS 6  
Offices

**FILE CODE:** D18

rhay:mm19133ab

Online Change Record		
Change #	Date	Description of Change
1	05/22/2020	Added the Infrared Thermography information after the online change record.

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 with Letter Automation Update Phase 2 (LAUPH2). The acronym is DBCS and the class code is BB.

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.

**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 Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO for appropriate EWP PPE and barricade requirements.

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



Frederick L. Jackson III  
Manager  
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HQ Maintenance Operations

- Attachments
1. Summary Workload Estimate for DBCS 6 with LAUPH2
  2. Master Checklist: 03-DBCS-BB-001-M: Power OFF and Power ON Tasks
  3. Master Checklist: 09-DBCS-BB-001-M: Operational Maintenance

**ATTACHMENT 1**

**SUMMARY**

**WORKLOAD ESTIMATE**

**FOR DBCS 6 WITH LAUPH2**

# SUMMARY WORKLOAD ESTIMATE FOR DBCS 6 WITH LAUPH2

			SUMMARY WORK LOAD ESTIMATES FOR DBCS - BB					
Number of mail pieces Processed for 1 Year								
>		58,000,000	High end estimate		For a 110 Stacker Machine			
						Operational Maintenance + Total Servicing		
Operation Days	Routine Servicing per Machine (Hrs/Yr)	Repair Time per Machine (Hrs/yr) *	Routine Servicing + Repair Time (Hrs/Yr)	Non-Productive Time per Machine (Hrs/yr) **	Total Servicing per Machine (Hrs/Yr)	1 Tour Hrs/Yr OpM x 1	2 Tours Hrs/Yr OpM x 2	3 Tours Hrs/Yr OpM x 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.								
		THRESHOLDS and PM TIME SUMMARY Hrs PER Year				OPERATIONAL MAINTENANCE		
		Daily	527.80			46 MIN. PER DAY PER MACHINE		
		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					

Machine Operating 5 Days/Week						Operational Maintenance + Total Servicing		
# of Stackers	Routine Servicing per Machine	Repair Time per Machine	Routine Servicing + Repair Time	Non-Productive Time per Machine	Total Servicing per Machine	1 Tour	2 Tours	3 Tours
	(Hrs/Yr)	(Hrs/yr) *	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	Hrs/Yr OpM x 1	Hrs/Yr OpM x 2	Hrs/Yr OpM x 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

Machine Operating 6 Days/Week						Operational Maintenance + Total Servicing		
# of Stackers	Routine Servicing per Machine	Repair Time per Machine	Routine Servicing + Repair Time	Non-Productive Time per Machine	Total Servicing per Machine	1 Tour	2 Tours	3 Tours
	(Hrs/Yr)	(Hrs/yr) *	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	Hrs/Yr OpM x 1	Hrs/Yr OpM x 2	Hrs/Yr OpM x 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

Machine Operating 7 Days/Week						Operational Maintenance + Total Servicing		
# of Stackers	Routine Servicing per Machine (Hrs/Yr)	Repair Time per Machine (Hrs/yr) *	Routine Servicing + Repair Time (Hrs/Yr)	Non-Productive Time per Machine (Hrs/yr) **	Total Servicing per Machine (Hrs/Yr)	1 Tour Hrs/Yr OpM x 1	2 Tours Hrs/Yr OpM x 2	3 Tours Hrs/Yr OpM x 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 estimates based on		30.00%	of preventive maintenance.
	Based on	10.00%	of total PM and repair.

Power Off Tasks							
Threshold ->		3K	1.1M	2.2M	4.4M	4.4M	57.2M
Item # ->		5	8	9	10	19	20
# Stackers	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
	206	6	30	18	60	18	60
	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

Minutes

Power On Tasks							
Threshold ->		1 Month	1K	1.1M	14.3M	14.3M	20M
Item # ->		22	21	28	29	30	23
# Stackers	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
	206	12	2	6	4	12	62
	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

Minutes

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**ATTACHMENT 2**

**DBCS 6 with LAUPH2 MASTER CHECKLIST**

03-DBCS-BB-001-M

POWER OFF AND POWER ON TASKS

Time Total: See roll-ups in Attachment 1.

U.S. Postal Service  <b>Maintenance Checklist</b>		IDENTIFICATION													
		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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

SAFETY STATEMENT	1.	<p><b>COMPLY WITH ALL SAFETY PRECAUTIONS.</b>  <b>Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shut down and lock out this machine. Open equipment and inspect dust conditions. Check for suspicious dust or unusual debris. If any unusual substance is found notify supervisor prior to proceeding with any further action on the equipment.</b></p> <p><b>THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.</b>  <b>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.</b></p> <p><b>WARNING FOR EWP/PPE:</b>  <b>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.</b></p>	1	All			
DBCS SYSTEM: REPORT ANALYSIS	2.	<p><b>View End of Day and Tracking Report.</b>            Prior to performing the power down lockout procedures, analyze data provided on these reports to determine if any areas of machine are degraded or in need of attention.</p>	4	10		1	
DBCS SYSTEM: COMPUTERS	3.	<p><b>Shut down the DBCS System according to procedures outlined in the most recent documentation; presently the MS-299.</b>            As of the date of this writing the detailed steps to properly shut down the system are in MS Handbook MS-299, Volume B, Section 5.2.2.</p> <p><b>NOTE</b>            If any problems are encountered while performing these procedures report them to your supervisor.</p>	1	9		1	

U.S. Postal Service <b>Maintenance Checklist</b>		IDENTIFICATION													
		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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

DBCS SYSTEM: POWER DOWN	4.	<b>Power down and lock out power.</b>  <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <b>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 _____.</b>  Power down the machine and lock out its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures.	1	All		1	
DBCS SYSTEM: MAIL SEARCH	5.	<b>Mail search.</b>  1. Remove all machine panels, except for diverter plate cover assemblies (Wimpy panels) and stacker lower front panel assemblies.  2. 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.  3. Search all base plate areas and module interiors for mail.  4. Remove any mail pieces found.  5. Remove any large amounts of debris while doing this mail search to prevent clogging of the vacuum when doing vacuuming tasks.  6. Follow local procedures for returning mail to operations for processing.	9	7		3	
DBCS SYSTEM: VACUUM/CLEAN 1	6.	<b>Vacuum/Clean machine.</b>  <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <b>Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral-stacking auger.</b>	30	7		60	

U.S. Postal Service <b>Maintenance Checklist</b>		IDENTIFICATION													
		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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

		<p style="text-align: center;"><b>WARNING</b></p> <p>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.</p> <p style="text-align: center;"><b>WARNING</b></p> <p>Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.</p> <p>While performing this task, check for loose, cracked, or damaged hinges in Reader Module. Notify supervisor if problem is found. Refer to the most recent MMO, currently MMO-077-03, dealing with this problem.</p> <p><b>MTSC&gt;BULLETINS&gt;Bulletins by Year</b></p> <p>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:</p> <ol style="list-style-type: none"> <li>1. P-DZ90 and P-LED10 assemblies.</li> <li>2. Outside surfaces of jogger assembly.</li> <li>3. Exterior of monitor and keyboard.</li> <li>4. Reader, Elevator, and Transition Module 5V power supply and light barriers.</li> <li>5. Exterior of the System Computer and the WFOV Processor.</li> <li>6. Tray label printers cleaning and label stock loading.             <ol style="list-style-type: none"> <li>a. Clean/Vacuum interior and exterior of label printers, located on first and eighth stacker modules.</li> <li>b. Ensure label printers are loaded with a sufficient supply of label material to support three tours of operation. If</li> </ol> </li> </ol>					
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U.S. Postal Service <b>Maintenance Checklist</b>		IDENTIFICATION													
		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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

		<p>required, load the label printer:</p> <ol style="list-style-type: none"> <li>1) Insert label stock between guides into back of label printer.</li> <li>2) Place wide end of label stock into label printer first, face down.</li> <li>3) Push print head lever back.</li> <li>4) Push label stock through until it comes out front of label printer.</li> </ol>					
DBCS SYSTEM: VACUUM/CLEAN 2	7.	<p><b>Clean and/or vacuum the following areas of the machine:</b></p> <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <p><b>Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.</b></p> <ol style="list-style-type: none"> <li>1. Vacuum/Clean the vacuum pump air filter located in bottom of feeder module.</li> <li>2. 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.               <ol style="list-style-type: none"> <li>a. Clean ICS-3 read head. Recommended cleaner is Riptide, PSN 6850-01-394-0164.</li> <li>b. Clean read head reflector. Recommended cleaner is Riptide.</li> </ol> </li> <li>3. Clean WFOV Assembly.</li> </ol> <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <p><b>Use extreme caution when working around the WFOV aperture. The edges of the aperture may become extremely sharp during use of the DBCS.</b></p> <ol style="list-style-type: none"> <li>a. 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</li> </ol>	10	7		173	

U.S. Postal Service <b>Maintenance Checklist</b>		IDENTIFICATION													
		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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

		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.	<b>Clean stacker modules 2 through to the end module by vacuuming, remove dust and debris as follows:</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>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.</b>  1. 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.  2. Ensure light barriers are clean.	35	7		1100	
DBCS SYSTEM: BELTS, ROLLERS, AND HARDWARE	9.	<b>Check belts and rollers.</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.</b>	36	9		2200	

U.S. Postal Service <b>Maintenance Checklist</b>		IDENTIFICATION													
		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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

		<p>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.</p> <ol style="list-style-type: none"> <li>1. Check all belts (drive and letter transport) for indications of wear. Create work order to replace worn, deformed, split, or torn belts.</li> <li>2. Check for broken or burred gate flags.</li> <li>3. Write work orders as needed for replacement of belts and/or gates.</li> <li>4. Check all rollers (drive and idler) for proper adjustment and indications of wear and dirt buildup. Clean or replace rollers as necessary.</li> <li>5. Create work orders as needed for adjustments, cleaning, and/or replacement of rollers.</li> </ol>					
DBCS SYSTEM: VACUUM/CLEAN 4	10.	<p><b>Perform the following steps to ensure all areas of the machine not covered in previous tasks are properly vacuumed and cleaned.</b></p> <p><b>WARNING</b></p> <p>Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.</p> <p><b>WARNING</b></p> <p>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.</p> <p><b>WARNING</b></p> <p>Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.</p>	113	7		4400	

U.S. Postal Service <b>Maintenance Checklist</b>		IDENTIFICATION													
		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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

		<p>While performing following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance. Open any additional doors including the plate cover assemblies (Wimpy Panels) in order to perform the following cleaning steps.</p> <ol style="list-style-type: none"> <li>1. Clean Feeder Module. Clean/vacuum all plates, covers, doors, framework, etc., including the vibrator assembly. Verify vibrator motor power cord is not rubbing against frame.</li> <li>2. Clean Transport Module. Clean all plates, covers, doors, and framework.</li> <li>3. RET - Clean/vacuum all plates, covers, doors, and framework.</li> </ol> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"> <b>CAUTION</b> </div> <p><b>Extreme care should be taken that rules regarding electro-static-discharge (ESD) are strictly followed when handling all printed circuit boards, including those in logic racks, system computers, etc. This includes the use of wrist straps and ESD pads.</b></p> <ol style="list-style-type: none"> <li>4. Using the Dust Containment Unit (PSN 4460-06-000-8366) or an ESD compatible vacuum (eBuy #58656), clean/vacuum system computer and WFOV. Remove covers from system computer and WFOV processor, and clean. Re-install covers.</li> <li>5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy Panels), stacker display panels back and front side.</li> </ol>					
DBCS SYSTEM: VACUUM/CLEAN 4	11.	<b>Vacuum/Clean top of RET and Stacker Modules.</b>	23	7			M
DBCS SYSTEM: SAFETY WARNING LABELS	12.	<b>Verification of safety warning labels.</b>  <div style="text-align: center;"> <b>NOTE</b> </div> <p>Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part</p>	2	7		4400	



U.S. Postal Service <b>Maintenance Checklist</b>		IDENTIFICATION													
		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req (min)	Min. Skill Lev	Thresholds		
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		<p>numbers. <b>MTSC&gt;BULLETINS&gt;Bulletins by Year</b></p> <ol style="list-style-type: none"> <li>1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.</li> <li>2. Verify stacker modules have safety warning labels present, correctly located, and in good condition.</li> <li>3. Notify supervisor of missing or worn feeder/stacker safety warning labels and initiate a work order to replace or remove and replace as necessary.</li> </ol>					
DBCS SYSTEM: UNDER MACHINE CLEAN/CHECK	13.	<p><b>Clean and check for mail under machine.</b></p> <ol style="list-style-type: none"> <li>1. Remove foam strips from back side of machine and outer side of Feeder and Transport section.</li> <li>2. Using a flashlight, start at Transport and look for mail pieces under machine, proceed to check for mail to last stacker.</li> <li>3. Remove any mail pieces found.</li> <li>4. Follow local procedures for returning mail to operations for processing.</li> <li>5. 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.</li> <li>6. Reinstall foam strips to backside of machine.</li> </ol>	58	7		57200	
FEEDER MODULE: HARDWARE	14.	<p><b>Check feeder hardware items as follows:</b></p> <p><b>NOTE</b></p> <p>Generate a Work Order to replace as required. Refer to the most recent MMO; currently MMO-106-17, <b>MTSC&gt;BULLETINS&gt;Bulletins by Year</b>, covering feeder alignment and performance adjustments. The current MS manual of this document is MS-299.  <a href="http://mtsc.usps.gov/msbooks/">http://mtsc.usps.gov/msbooks/</a></p> <ol style="list-style-type: none"> <li>1. Teflon strip.</li> </ol>	1	9		173	

U.S. Postal Service <b>Maintenance Checklist</b>		IDENTIFICATION													
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		0	3	D	B	C	S				B	B	0	0	1
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133				Occurrence eCBM			

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		2. Rubber strippers. 3. Pick-off belts.					
FEEDER MODULE: ALIGNMENT CHECK	15.	<b>Check Feeder alignments.</b>  <b>NOTE</b>  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. <b>MTSC&gt;BULLETINS&gt;Bulletins by Year</b>	30	7		1100	
READER MODULE: MOTOR FILTER	16.	<b>Clean motor power unit filter.</b> Remove, clean, and replace filter on motor power unit.	1	7		1100	
READER MODULE: WFOV FOAM ROLLER	17.	<b>WFOV foam roller check.</b>  Check WFOV foam roller in Reader module. Replace roller if necessary.	1	9		4400	
READER MODULE: ENCODER	18.	<b>Replace Encoder (Tachometer) Tube Coupler and Hose Clamp.</b>  1. Remove and replace the Encoder Tube Coupler (PSN 4730-10-000-5863) and Hose Clamp (PSN 4730-01-336-5495) located on the Reader Module Plate.  2. If problems occur while doing these procedures notify your supervisor, and, if needed, generate a work order to resolve those problems.	10	9		14300	
STACKER MODULES: POWER SUPPLIES	19.	<b>Stacker power supply cleaning.</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div>  <b>Use non-metallic ends on the vacuum while cleaning the power supplies.</b>  1. Remove covers on power supplies located in each stacker module.  2. Using an approved vacuum cleaner, clean inside of each power supply assembly.	21	9		4400	

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		0	3	D	B	C	S			B	B	0	0	1	M
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		3. Install covers.					
STACKER MODULES: BUMPERS AND FOAM PADS	20.	<p><b>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.</b></p> <p><b>NOTE</b></p> <p>For location references use the MS-299, 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-299, 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.</p> <ol style="list-style-type: none"> <li>Check the Bumpers and Foam Pads to see if they are missing, damaged, and/or degraded in any way.</li> <li>Make a list of Bumpers and Foam Pads as well as associated hardware needing replacement and their locations.</li> <li>Generate a Work Order to replace the Bumpers and Foam Pads found and recorded in Steps 1 and 2 of this instruction.</li> </ol>	70	9		57200	
DBCS SYSTEM: POWER UP	21.	<p><b>Power Up DBCS.</b></p> <ol style="list-style-type: none"> <li>Power up preparation. <ol style="list-style-type: none"> <li>Ensure tools and materials are removed from work area.</li> <li>Replace all machine panels.</li> <li>Close all machine doors and covers.</li> </ol> </li> </ol> <p><b>WARNING</b></p> <p><b>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.</b></p> <ol style="list-style-type: none"> <li>Restore power to equipment as prescribed</li> </ol>	8	7		1	

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		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.	<p><b>Check all system interlocks and emergency stop switches.</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <p><b>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.</b></p> <p style="text-align: center;"><b>NOTE</b></p> <p>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.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>This task requires two people. Time is doubled for staffing purposes. Verify light conditions and warning sounds for each E-Stop and interlock.</p> <ol style="list-style-type: none"> <li>1. Start machine. Verify that when START switch is pressed, start-up warning indicators around sorter flash amber. At same time, start-up warning horns sound. The horns sound for 5 seconds and go off, while warning indicators flash for a total of 10 seconds. Machine runs.</li> <li>2. Press EMERG STOP mushroom switch on feeder control panel assembly and note that following occurs:               <ol style="list-style-type: none"> <li>a. Machine stops immediately.</li> <li>b. Lamp lights in EMERG STOP switch.</li> <li>c. Red EMERG STOP indicator lights on appropriate system control panel column.</li> </ol> </li> </ol>	18	7			M

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		<p>d. READY lamp goes out on system control panel.</p> <p>e. Pressing Start pushbutton does not start machine.</p> <p>3. Reset EMERG STOP mushroom switch and note that following occurs:</p> <p>a. System READY lamp illuminates on system control panel.</p> <p>b. Red EMERG STOP indicator goes out on appropriate system control panel column.</p> <p>c. Lamp goes out in module control panel EMERG STOP switch.</p> <p>d. Machine can now be started.</p> <p>e. Start machine. Verify that when START switch is pressed, start-up warning indicators around sorter flash amber. At same time, start-up warning horns sound. The horns sound for 5 seconds and go off, while warning indicators flash for a total of 10 seconds. Machine runs.</p> <p>f. Open Reader module front panel door and note that the following occurs:</p> <p>1) Machine stops immediately.</p> <p>2) Red EMERG STOP indicator lights on appropriate system control panel column.</p> <p>3) READY lamp goes out on system control panel.</p> <p>4) Pressing Start pushbutton does not start machine.</p> <p>g. Close Reader module front panel door and note that the following occurs:</p> <p>1) System READY lamp illuminates on system control panel.</p> <p>2) Red EMERG STOP indicator goes out on appropriate system control panel column.</p>					
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		0	3	D	B	C	S			B	B	0	0	1	M
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		<p>h. Machine can now be started.</p> <p>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.</p> <p>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.</p> <p>6. If any problems are found, notify supervisor.</p>					
DBCS SYSTEM: PREDICTIVE MAINTENANCE	23.	<p><b>Perform predictive maintenance tasks and procedures.</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <p><b>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.</b></p> <p style="text-align: center;"><b>NOTE</b></p> <p>While performing 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.</p> <p>1. Prepare machine.</p> <p>a. Shut down the system in accordance with MS-299, Volume B, Section 5.2.2.</p> <p>b. Perform power down and lock out</p>	219	9		20000	

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		0	3	D	B	C	S			B	B	0	0	1	M
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		<p>procedures. Power down the machine and lock out its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures.</p> <p>c. Open covers and remove panels. Open all machine doors including Main AC Power Panel, Feeder Distribution Panel, and Motor Distribution Panel. Open or remove all machine panels, this includes diverter plate cover assemblies (Wimpy panels). Override interlock switches. Rear Main Power Unit must by-pass magnetic contacts for DBCS to run.</p> <p style="text-align: center;"><b>WARNING</b></p> <p><b>Be cautious when working around or on equipment when power has been applied.</b></p> <p>d. 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 to power up the DBCS.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Machine must have been running for a minimum of 15 minutes prior to doing the ultrasonic and infrared scans.</p> <p>2. Ultrasonic scans.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Use the Long Range Module (cone) on the Ultra-Probe when doing ultrasonic scans.</p> <p>a. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Feeder, for excessive vibration and noise.</p> <p>b. Use ultrasonic detector to monitor all</p>					
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		<p>bearing assemblies, top and bottom of Transport, for excessive vibration and noise.</p> <p>c. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Reader module, for excessive vibration and noise.</p> <p>d. Use ultrasonic detector to monitor all bearing assemblies top and bottom of the Elevator for excessive vibration and noise.</p> <p>e. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Transition module, for excessive vibration and noise.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Stacker work sheets are available for download from MTSC Web site for use in keeping track of location of bad bearings in stacker modules.</p> <p>f. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Stacker modules, Tiers 1-4 for excessive vibration and noise.</p> <p>3. Infrared scans.</p> <p>a. Use non-contact infrared to scan Main Power Unit front and rear (magnetic interlock on panel), scan all terminal connections and connector plugs.</p> <p>b. Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Feeder for abnormal temperature.</p> <p>c. Use non-contact infrared to monitor all terminal connections and connection plugs in the Feeder Distribution Panel for abnormal temperature.</p> <p>d. Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Transport for abnormal temperature.</p> <p>e. Use non-contact infrared to monitor all</p>					
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		0	3	D	B	C	S			B	B	0	0	1	M
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		<p>motors, terminal connections, and connector plugs in the Reader, Elevator, and Transition modules for abnormal temperature.</p> <p>f. Use non-contact infrared to monitor all terminal connections and connector plugs in the Motor Distribution Panel for abnormal temperature.</p> <p>g. Use non-contact infrared to monitor all terminal connections and connector plugs in the Stacker Modules, Tiers 1-4 for abnormal temperature.</p> <p>4. Restore equipment to ready status.</p> <p>a. Shut down the system in accordance with MS-299, Volume B, Section 5.2.2.</p> <p>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.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING</b></p> <p><b>Be cautious when working around or on equipment when power has been applied.</b></p> <p>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.</p>					
FEEDER MODULE: ALIGNMENT	24.	<p><b>Check Feeder alignment.</b></p> <p style="text-align: center;"><b>NOTE</b></p> <p>Ensure all Feeder alignments requiring power are accomplished.</p>	30	7		1100	

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		<p align="center"><b>NOTE</b></p> <p>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.</p> <p>Check feeder alignment in accordance with the most recent MMO, currently MMO-106-17, covering feeder alignment and performance adjustments.</p> <p><b>MTSC&gt;BULLETINS&gt;Bulletins by Year</b></p>					
READER MODULE: ICS ELECTRICAL ENCLOSURE	25.	<p><b>ID Tag Reader System electrical enclosure inspection.</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <p><b>Be cautious when working around or on equipment when power has been applied.</b></p> <p>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.</p> <p><b>MTSC&gt;BULLETINS&gt;Bulletins by Year</b></p>	10	10		4400	
READER MODULE: WFOV ALIGNMENT	26.	<p><b>Perform the following on the WFOV Read Head Assembly on the DBCS.</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <p><b>Be cautious when working around or on equipment when power has been applied.</b></p> <p>1. The WFOV Read Head Assembly (RHA) is position-mounted on a spacer plate. On the DBCS, DIOSS, and CIOSS the spacer plate is secured to a mounting plate. Ensure the spacer plate is properly aligned in accordance with the most recent documentation covering this procedure, currently this will be MS-212 section 5.2.1.</p>	8	10		4400	

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		0	3	D	B	C	S			B	B	0	0	1	M
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		2. Perform the WFOV Installation Alignment in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.2.1.  3. If any problems require corrective actions, write a work order to document the time and events associated with those problems.					
ELEVATOR MODULE: READER CARD CAGE	27.	<b>Power supply PS1 (5VDC Reader) check.</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>Be cautious when working around or on equipment when power has been applied.</b>  1. Open Elevator lower left door. 2. Disengage card cage latch, carefully pull open card cage. 3. Connect multimeter leads with clips on connectors E1 and E2 of Reader card cage backplane. 4. A reading of 5.0 to 5.1 VDC should be present, if not the power supply should be replaced because it is out of specification. 5. Carefully push card cage back into place, make sure latch locks and close elevator door. 6. If power supply needs to be replaced, inform Supervisor and submit a work order for replacing the power supply.	5	9		14300	
STACKER MODULES: SWITCHES	28.	<b>Stacker bin-full switch checks.</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>Be cautious when working around or on equipment when power has been applied.</b>  1. Pull each stacker blade to its 3/4 full position and note that its associated red indicator on stacker module display panel flashes and stacker module horn beeps. Note defective stacker switches.	7	7		1100	

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		2. 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.  3. Verify the stacker blade rides smoothly on the guide rod.  4. Notify supervisor of defective stacker switches and initiate a work order to repair or replace as necessary.					
STACKER MODULES: POWER SUPPLY 5V	29.	<b>Power supply adjust PS1 5 volts (stackers).</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>Be cautious when working around or on equipment when power has been applied.</b>  1. Place multimeter leads with clips on connectors J10 and J11 of the stacker backplane.  2. 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).	14	9		14300	
STACKER MODULES: GATE SOLENOID PUSHERS	30.	<b>Gate and solenoid pusher assembly test.</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>Be cautious when working around or on equipment when power has been applied.</b>  <div style="text-align: center;"><b>NOTE</b></div> <p>Gate and pusher solenoid testing should be performed from the Stacker Integrated Solenoid Driver Assembly (S-ISDA). The S-ISDA is comprised of 1 P-TC08 (power and machine interface) and 4 P-TSD08 (driver module) circuit cards. Each P-TSD08 contains a built in test function that is user activated.</p> 1. Open the rear doors on the selected Stacker module to be tested.	20	9		14300.	

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		WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
		0	3	D	B	C	S			B	B	0	0	1	M
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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

		<p>2. Lower the S-ISDA .to gain access to the test push buttons.</p> <p>3. One tier on each stacker module will be tested at a time, energizing every gate and solenoid pusher assembly sequentially, repeatedly. By pushing the corresponding test button on a P-TSD08 circuit board, the circuit board will perform a built in test to toggle each gate and pusher solenoid 14 times sequentially and will repeat for a total of 3 cycles. The testing will be identical for each stacker module.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Pushing the test button while a test cycle is active will end the test cycle.</p> <p>a. Push the test button on the Tier 1 P-TSD08 circuit board. All LEDs on the board will illuminate for approximately 3 seconds and then all will cycle on and off for approximately 4 seconds, except for LED DS101 which is the power indicator for the board.</p> <p>b. The P-TSD08 will test each gate and pusher solenoid on the selected tier in the following order:</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The associated LEDs are called out for each component (gate or pusher solenoid below.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>As each gate or pusher solenoid is being tested, the P-TSD08 will toggle each one 14 times with 2 rapid toggles in the middle. The whole test will cycle 3 times through each gate and pusher with will take approximately 2 minutes to completer per tier.</p> <ul style="list-style-type: none"> <li>• Gate 1 <ul style="list-style-type: none"> <li>• DS201 – Gate activation</li> <li>• DS202 – Gate power</li> </ul> </li> </ul>					
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		<ul style="list-style-type: none"> <li>Pusher Solenoid 1               <ul style="list-style-type: none"> <li>DS301 – Pusher activation</li> <li>DS302 – Pusher power</li> </ul> </li> <li>Gate 2               <ul style="list-style-type: none"> <li>DS203 – Gate activation</li> <li>DS204 – Gate power</li> </ul> </li> <li>Pusher Solenoid 2               <ul style="list-style-type: none"> <li>DS303 – Pusher activation</li> <li>DS304 – Pusher power</li> </ul> </li> <li>Gate 3               <ul style="list-style-type: none"> <li>DS205 – Gate activation</li> <li>DS206 – Gate power</li> </ul> </li> <li>Pusher Solenoid 3               <ul style="list-style-type: none"> <li>DS305 – Pusher activation</li> <li>DS306 – Pusher power</li> </ul> </li> <li>Gate 4               <ul style="list-style-type: none"> <li>DS207 – Gate activation</li> <li>DS208 – Gate power</li> </ul> </li> <li>Pusher Solenoid 4               <ul style="list-style-type: none"> <li>DS307 – Pusher activation</li> <li>DS308 – Pusher power</li> </ul> </li> </ul> <p>c. Repeat sub-steps 3a and 3b until each tier in the selected Stacker module has been tested.</p> <p>4. If the red status led (DS102) comes on when a gate or pusher is being tested it is an indication there is a fault with the particular gate or pusher that was being tested at that time. Note which gate or pusher solenoid caused the fault. The fault could be in one of the following:</p> <ul style="list-style-type: none"> <li>The gate or pusher</li> <li>The under deck harness assembly for the gate or pusher solenoid.</li> </ul>					
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					Run Hours	Pieces Fed (000)	Freq.

		<ul style="list-style-type: none"> <li>The cable assembly for the gate or pusher solenoid.</li> <li>The P-TSD08 circuit board.</li> </ul> <ol style="list-style-type: none"> <li>After completing the testing of the gates and solenoids in the Stacker module, raise S-ISDA into upright position.</li> <li>Close Stacker module rear doors.</li> <li>Repeat testing for next Stacker module until all have been tested.</li> <li>Compile all notes from Step 4 and submit a work order for repairs to be made.</li> </ol>					
DBCS VALIDATION: MACHINE FUNCTIONS	31.	<b>Perform basic machine function validation.</b> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"><b>WARNING</b></div> <p><b>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.</b></p> <ol style="list-style-type: none"> <li>Turn Maintenance Mode switch on operator control panel to Maintenance Mode position.</li> <li>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.</li> <li>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.</li> <li>Proceed to the end stacker and press the Emergency Stop button. Verify that the machine stops.</li> <li>If machine fails to stop, notify supervisor. Refer to the most recent MMO; currently</li> </ol>	4	9		3	

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		MMO-002-03, dealing with this problem. <b>MTSC&gt;BULLETINS&gt;Bulletins by Year</b>  6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel.					
DBCS VALIDATION: LABEL PRINTER	32.	<b>Check label printer. Verify label quality.</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>Be cautious when working around or on equipment when power has been applied.</b>  1. On label printer, press LINE FEED button one time. Label printer will print out test label.  2. 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 clean the thermal head using cleaning kit, PSN 7930-07-000-1593.	2	7		3	
DBCS VALIDATION: WFOV TEST DECK	33.	<b>Run WFOV test deck, PSN 3915-06-000-8292, as follows:</b>  <div style="border: 1px solid black; padding: 2px; text-align: center;"><b>WARNING</b></div> <b>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.</b>  1. Set up machine in DBCS Mode. 2. Load Run information. 3. Enter Operation number (750). 4. Select F2 to accept. 5. Load sort plan WFOV_TDK.EBF. 6. Select "Start Mail Processing". 7. Select Display ZIP/Pkts and On Line Display.	9	9		3	



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					Run Hours	Pieces Fed (000)	Freq.

		<p>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.</p> <p>9. Verify the Certified Mail portion of the test deck sorts properly.</p> <p>10. If any additional time is needed to correct ZIP result discrepancies and/or GAR issues, including auto-calibration, initiate a work order.</p>					
DBCS VALIDATION: ICS STRESS DECK	34.	<p><b>ICS reader validation.</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"><b>WARNING</b></div> <p><b>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.</b></p> <p>Verify the ICS-3 reader as follows:</p> <ol style="list-style-type: none"> <li>Set machine up to run in DBCS mode, use sort plan ICSTSTI.ebf.</li> <li>From ON LINE MAIL PROCESSING screen, select Display ZIPs/Pkts.</li> <li>From Select Display Option screen, select On-Line Display.</li> <li>Start machine and run the stress deck, PSN 3915-10-000-6361.</li> <li>At on line display screen, verify that ICS-3 Reader detected all ID Tags present and they read same.</li> <li>Stop machine.</li> <li>Retrieve and verify cards sorted correctly. Refer to the most recent MMO, currently, MMO-144-15, dealing with sorting problems.</li> </ol>	5	9		3	

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Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133			Occurrence eCBM				

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		<b>MTSC&gt;BULLETINS&gt;Bulletins by Year</b>					
		8. Notify supervisor of any problems found.					
DBCS VALIDATION: UAA INTERCEPT BARCODE	35.	<b>Verify that the OCR engine in the DBCS mode can intercept UAA mail.</b> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"> <b>WARNING</b> </div> <p><b>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.</b></p> <ol style="list-style-type: none"> <li>1. Using the Xanadu Test Deck, PSN 9310-08-000-3864, P/N 66.1026.034-00, do the following:               <ol style="list-style-type: none"> <li>a From the Main Menu:                   <ol style="list-style-type: none"> <li>1) Select Mode Select.</li> <li>2) Select DBCS.</li> <li>3) Load Run Information.</li> <li>4) Enter Operation Number (750).</li> <li>5) Select F2 to accept.</li> </ol> </li> <li>b Load a sortplan that has a confirmed UAA pocket assigned (ParsSpecial Pockets.ebf assigns pocket 39 for UAA).</li> </ol> </li> <li>2. Start mail processing and run UAA test deck.</li> <li>3. Print or view the End of Run report.</li> <li>4. Calculate the intercept rate (# confirmed UAA test pieces divided by the total # of test pieces fed, multiplied by 100).</li> <li>5. Verify that at least 90% of the UAA test deck was intercepted.</li> <li>6. Log off the system computer.</li> </ol>	9	9		1100	
FINAL CLEAN UP	36.	<b>Clean up.</b> Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to supervisor.	2	ALL			

**ATTACHMENT 3****DBCS 6 with LAUPH2 MASTER CHECKLIST**

09-DBCS-BB-001-M

Operational Maintenance

Time Total: 46 minutes

Task Item Number	Basic Task Time Min.	Times Done During Tour	Total Time 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

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		0	9	D	B	C	S				B	B	0	0	1
Equipment Nomenclature Delivery Bar Code Sorter Phase 6		Equipment Model DBCS Phase 6 with LAUPH2						Bulletin Filename MM19133				Occurrence Tourly			

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					Run Hours	Pieces Fed (000)	Freq.

SAFETY STATEMENT	1.	<p><b>COMPLY WITH ALL SAFETY PRECAUTIONS.</b>            Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shut down and lock out this machine. Open equipment and inspect dust conditions. Check for suspicious dust or unusual debris. If any unusual substance is found notify supervisor prior to proceeding with any further action on the equipment.</p> <p><b>THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.</b>            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.</p> <p><b>WARNING FOR EWP/PPE:</b>            Steps contained in this bulletin may require the use of Personal Protective Equipment (PPE). Refer to the current Electrical Work Plan (EWP) MMO for appropriate PPE and barricade requirements.</p>	1	All			T
DBCS OPM: MACHINE LOGBOOK	2.	<p>At the beginning of the operation, examine machine log.</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"> <b>WARNING</b> </div> <p>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.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>While performing listed operational maintenance tasks, be alert for unusual sounds, odors, or other indications of potential failure conditions in the machine.</p>	1	9			T

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		0	9	D	B	C	S				B	B	0	0	1
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		Examine log and document any unresolved problems from the previous tour.  <b>NOTE</b>  Operational checks must be made with machine processing mail in a normal operating mode.					
DBCS OPM: MACHINE SAFETY	3.	<b>Every two hours observe warning horn and beacons.</b>  Watch for proper operation of warning horn and beacons on machine start-ups.	1	9			T
DBCS OPM: MACHINE INDICATOR LAMPS	4.	<b>Every two hours check lamps.</b>  Watch for proper functionality of indicator lamps used during normal machine operations. Correct deficiencies as soon as practical.	1	9			T
DBCS OPM: OPERATORS	5.	<b>Every two hours observe Feeder and check with operator.</b>  Observe the Feeder operation and inquire if operators are having excessive processing problems. Investigate as necessary. Initiate corrective action as appropriate.	1	9			T
DBCS OPM: VIDEO DISPLAY TERMINAL WFOV	6.	<b>Every two hours check mail processing screen.</b>  1. 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: <ul style="list-style-type: none"> <li>a. Operation 918 and 919 - 99.1% GAR</li> <li>b. All other Operations 98.8% GAR</li> </ul> 2. If MAR or GAR is below acceptable values: <ul style="list-style-type: none"> <li>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.</li> <li>b. If the image is degraded or if problems are noted take appropriate corrective action.</li> </ul>	1	9			T

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DBCS OPM: OVERFLOW STACKER	7.	<b>Every two hours check mail in the Overflow/Reject Stacker.</b>  Check type of mail present in overflow stacker to determine which area(s) of the machine might be malfunctioning. Check for indications of double feeds, one particular code, a single gate, or mail path blockage problem. Document any problems found, and, if needed, write a work order	2	9			T
DBCS OPM: SORTING STACKERS	8.	<b>Every two hours check for missorts.</b>  Take a sample from at least 5 stackers and verify the address block matches the scheme for that pocket. Verify mail pieces enter stacker in a uniform manner. Document any problems found, and, if needed, write a work order.	2	9			T
DBCS OPM: READER, ICS-3	9.	<b>Every two hours examine the Message Relay Log by pressing "alt-tab" on the host VDT GUI for excessive ID TAG ERROR messages and if needed do the following:</b>  1. Check ICS-3 ID tag reader exterior for accumulated dust, dirt, and debris or loose/worn belts, paying particular attention to the aperture and to the raised portion of the faceplate.  2. Document any problems found, and, if needed, write a work order.	1	9			T
DBCS OPM: ACE/MKAT LAPTOP COMPUTER	10.	<b>Every 2 hours check all performance indicators displayed on the MPEWatch Realtime Maintenance View Screen including the following items:</b>  1. Key Performance Indicators (KPI) report.  <b>NOTE</b>  Access to KPI can be done by clicking on the hyperlink located in the column titled "KPI%".  2. Unplanned Events. 3. DPS Information. 4. Take appropriate action to investigate and correct any abnormalities detected in viewing MPEWatch. Generate a work order for further maintenance actions if required.	5	9			T

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					Run Hours	Pieces Fed (000)	Freq.

DBCS OPM: ADMINISTRATIVE	11.	<b>At the end of the operation tour, compile the following information:</b>	2	9			T
		1. Route sheet information.					
		2. Any work orders generated.					
		3. Make entries in Machine Logbook of any discrepancies found during the mail run.					
		4. Turn this information into Maintenance Supervision. Brief personnel coming on duty.					