



Maintenance Management Order

SUBJECT: Preventive, Predictive, and Operational
Maintenance Guidelines for Combined Input
Output Sub-System (CROSS) Using eCBM

DATE: August 11, 2009

NO: MMO-102-09

TO: All CROSS Offices

FILE CODE: 2CA

wbro:mm08129aj

This MMO has been modified to reflect changes from MMO-074-10.

This Maintenance Management Order (MMO) provides Preventive, Predictive, and Operational Maintenance Guidelines for the Combined Input Output Sub-System (CROSS). This Maintenance Management Order (MMO) supersedes MMO-003-08.

The method used to generate these maintenance tasks is WEB based through the Electronic Maintenance Activity Reporting and Scheduling system (eMARS) using the Electronic Conditioned Based Maintenance (eCBM) module.

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 to satisfy software counters that trigger the assignment of these tasks. Therefore, PM workhour requirements will vary day-to-day based on site specific machine utilization.

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

MAINTENANCE MANAGEMENT ORDER

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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.

Direct any questions or comments concerning this bulletin to the HelpDesk, Maintenance Technical Support Center, P.O. Box 1600, Norman OK 73070-1600; telephone FTS 2000 (405) 573-2123 or toll free (800) 366-4123.



Robert E. Albert
Manager
Maintenance Technical Support Center
Maintenance Policies and Programs

- Attachments:
1. Summary of Workload Estimate
 2. Master Checklist: 03-CIOSS-AB-001-M: Power OFF/ON Tasks
 3. Master Checklist: 09-CIOSS-AB-001-M: Operational Maintenance

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ATTACHMENT 1

SUMMARY

WORKLOAD ESTIMATE

FOR

CROSS SYSTEM

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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	Hrs/Yr	Hrs/Yr
						OpM x 1	OpM x 2	OpM x 3
110	996.52	298.96	1295.48	129.55	1425.03	1776.03	2127.03	2478.03
126	1014.25	304.27	1318.52	131.85	1450.37	1801.37	2152.37	2503.37
142	1027.65	308.30	1335.95	133.60	1469.55	1820.55	2171.55	2522.55
158	1041.05	312.32	1353.37	135.34	1488.71	1839.71	2190.71	2541.71
174	1054.46	316.34	1370.79	137.08	1507.87	1858.87	2209.87	2560.87
190	1072.27	321.68	1393.96	139.40	1533.36	1884.36	2235.36	2586.36
206	1085.68	325.70	1411.38	141.14	1552.52	1903.52	2254.52	2605.52
222	1099.08	329.72	1428.80	142.88	1571.68	1922.68	2273.68	2624.68
238	1112.47	333.74	1446.21	144.62	1590.83	1941.83	2292.83	2643.83
254	1130.12	339.04	1469.16	146.92	1616.08	1967.08	2318.08	2669.08
270	1143.51	343.05	1486.56	148.66	1635.22	1986.22	2337.22	2688.22
286	1156.92	347.08	1504.00	150.40	1654.40	2005.40	2356.40	2707.40
302	1170.32	351.10	1521.42	152.14	1673.56	2024.56	2375.56	2726.56

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	Hrs/Yr	Hrs/Yr
						OpM x 1	OpM x 2	OpM x 3
110	1152.52	345.76	1498.28	149.83	1648.11	2069.31	2490.51	2911.71
126	1171.98	351.59	1523.57	152.36	1675.93	2097.13	2518.33	2939.53
142	1186.25	355.88	1542.13	154.21	1696.34	2117.54	2538.74	2959.94
158	1200.52	360.16	1560.68	156.07	1716.75	2137.95	2559.15	2980.35
174	1214.79	364.44	1579.23	157.92	1737.15	2158.35	2579.55	3000.75
190	1234.34	370.30	1604.64	160.46	1765.10	2186.30	2607.50	3028.70
206	1248.61	374.58	1623.19	162.32	1785.51	2206.71	2627.91	3049.11
222	1262.88	378.86	1641.74	164.17	1805.91	2227.11	2648.31	3069.51
238	1277.14	383.14	1660.28	166.03	1826.31	2247.51	2668.71	3089.91
254	1296.52	388.96	1685.48	168.55	1854.03	2275.23	2696.43	3117.63
270	1310.78	393.23	1704.01	170.40	1874.41	2295.61	2716.81	3138.01
286	1325.05	397.52	1722.57	172.26	1894.83	2316.03	2737.23	3158.43
302	1339.32	401.80	1741.12	174.11	1915.23	2336.43	2757.63	3178.83

* Repair estimates based on 30% of servicing.

**Based on 10% of total servicing and repair.

# of Stackers	Machine Operating 7 Days/Week					Operational Maintenance + Total Servicing		
	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	1308.52	392.56	1701.08	170.11	1871.19	2362.59	2853.99
126	1329.71	398.91	1728.63	172.86	1901.49	2392.89	2884.29	3375.69
142	1344.85	403.46	1748.31	174.83	1923.14	2414.54	2905.94	3397.34
158	1359.99	408.00	1767.98	176.80	1944.78	2436.18	2927.58	3418.98
174	1375.12	412.54	1787.66	178.77	1966.43	2457.83	2949.23	3440.63
190	1396.41	418.92	1815.33	181.53	1996.86	2488.26	2979.66	3471.06
206	1411.54	423.46	1835.01	183.50	2018.51	2509.91	3001.31	3492.71
222	1426.68	428.00	1854.68	185.47	2040.15	2531.55	3022.95	3514.35
238	1441.81	432.54	1874.35	187.44	2061.79	2553.19	3044.59	3535.99
254	1462.92	438.88	1901.80	190.18	2091.98	2583.38	3074.78	3566.18
270	1478.05	443.42	1921.47	192.15	2113.62	2605.02	3096.42	3587.82
286	1493.18	447.95	1941.13	194.11	2135.24	2626.64	3118.04	3609.44
302	1508.32	452.50	1960.82	196.08	2156.90	2648.30	3139.70	3631.10

* Repair estimates based on 30% of servicing.

**Based on 10% of total servicing and repair.

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Power Off Tasks						
Threshold ->		300K	1.5M	6M	6M	
Item # ->		5	8	28	29	
# Stackers	110	9	35	91	21	Minutes
	126	1	5	10	3	
	142	2	10	20	6	
	158	3	15	30	9	
	174	4	20	40	12	
	190	5	25	50	15	
	206	6	30	60	18	
	222	7	35	70	21	
	238	8	40	80	24	
	254	9	45	90	27	
	270	10	50	100	30	
	286	11	55	110	33	
302	12	60	120	36		

Power On Tasks						
Threshold ->		1 Month	1K	1.5M	30M	
Item # ->		33	30	40	53	
# Stackers	110	18	7	7	200	Minutes
	126	2	1	1	10	
	142	4	1	2	20	
	158	6	1	3	30	
	174	8	1	4	40	
	190	10	2	5	52	
	206	12	2	6	62	
	222	14	2	7	72	
	238	16	2	8	82	
	254	18	3	9	90	
	270	20	3	10	100	
	286	22	3	11	110	
302	24	3	12	120		

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ATTACHMENT 2

CROSS MASTER CHECKLIST

03-CROSS-AB-001-M

POWER OFF AND POWER ON TASKS

MAINTENANCE MANAGEMENT ORDER

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U.S. Postal Service Maintenance Checklist	IDENTIFICATION													
	WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
	0	3	C	I	O	S	S		A	B	0	0	1	M
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AJ			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>COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shutdown and lockout 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>THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.</p> <p>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>	1	All			
CIOSS SYSTEM REPORTS	2.	<p>Prior to performing the power down lock out procedures; generate, print, or view an End Of Day Report and Tracking Report.</p> <p>Analyze data provided on these reports to determine if any areas of machine are degraded or in need of attention.</p>	4	10		1	
CIOSS SYSTEM SHUTDOWN PRINTERS AND COMPUTERS	3.	<p>Power down and lockout.</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;">CAUTION</div> <p>Ensure all ink jet printers and PC units are shutdown in accordance with the MS-214 for normal shutdown. Failure to properly shutdown these components may cause PC software anomalies or damage to printers.</p> <p style="text-align: center;">NOTE</p> <p>All mechanical adjustments that do not require power to machine in order to perform adjustments will be done with machine locked out.</p>	12	10		1	

U.S. Postal Service		IDENTIFICATION										
Maintenance Checklist		WORK CODE		EQUIPMENT ACRONYM				CLASS CODE		NUMBER		TYPE
		0	3	C	I	O	S	S	A	B	0	0
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model				Bulletin Filename MM08129AI			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>Shut down system printers. Locate both Imaje ink jet printers (ID Tag printer and the POSTNET printer) and the Scietex ink jet printer. Initiate an orderly shutdown by pressing the ON/OFF switch located on the upper right front panel of these units.</p> <p>Shut down system computers. Shut down the following computers:</p> <ol style="list-style-type: none"> 1. OCR WFOV computer. 2. WFOV computer. 3. Computers in computer rack. 4. Image Processing Computer. 					
CIOSS SYSTEM POWER DOWN	4.	<p>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>	2	ALL		1	
CIOSS SYSTEM MAIL SEARCH	5.	<p>Mail search.</p> <ol style="list-style-type: none"> 1. Remove all machine panels, except for diverter plate cover assemblies (Wimpy panels) and stacker lower front panel assemblies. 2. Ensure each of the cover's gas springs and retaining clips are able to hold the cover in the uppermost position. Report defective components to the supervisor and/or create a 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	

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	WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
	0	3	C	I	O	S	S		A	B	0	0	1	M
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AJ			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.

CIOSS SYSTEM VACUUM 1	6.	<p style="text-align: center;">WARNING</p> <p>Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral-stacking auger.</p> <p style="text-align: center;">WARNING</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;">NOTE</p> <p>HSLA debris: to prevent contamination of material with dust and debris, remove the label material in both HSLAs prior to cleaning equipment.</p> <p>Vacuuuming machine. Vacuum and clean 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.</p>	21	7		80	
CIOSS SYSTEM VACUUM FILTERS	7.	<p>Ensure the cleaning of the following filters is done:</p> <ol style="list-style-type: none"> 1. Transport module: The two inlet filters on the air pump. 2. Drying turn module: The three Variable Frequency Drive (VFD) filters. 3. OCR/Tag Printer module: <ol style="list-style-type: none"> a. Air filters in door in front of CM card cage. b. Filter on the ICS reader electronics unit. c. Air pump inlet filter for IJP. 4. HSLA module: <ol style="list-style-type: none"> a. Four rear door filters. b. Filter on ICS reader. 	10	7		220	

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	0	3	C	I	O	S	S		A	B	0	0	1	M
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AI			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.

		c. Two inlet filters on air pump for Doubles Detector. 5. Computer Right module: Front and rear door filters. 6. Drying Transport module: Filters on ICS reader electronics unit. 7. Leveler module: Three Variable Frequency Drive (VFD) filters. 8. Reader module: WFOV and IPC computer filters.					
CIOSS SYSTEM VACUUM 3	8.	<p>By vacuuming, remove dust and debris as follows:</p> <div style="text-align: center; border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">WARNING</div> <p>Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral-stacking auger.</p> <div style="text-align: center; border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">WARNING</div> <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> 1. Clean stacker modules #2 through #7, transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels. 2. Ensure light barriers are clean.	35	7		1500	
CIOSS SYSTEM BELTS AND ROLLERS	9.	<p>Check belts and rollers. Starting at the front of stacker module #1 proceed toward the 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 to the front of the stacker modules.</p> 1. Check all belts (drive and letter transport) for indications of wear. Replace worn, deformed, split, or torn belts. 2. Write work orders as needed for replacement of belts.	36	9		1500	

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	WORK CODE		EQUIPMENT ACRONYM					CLASS CODE		NUMBER			TYPE
	0	3	C	I	O	S	S		A	B	0	0	1
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AJ			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>3. Check all rollers (drive and idler) for proper adjustment and indications of wear. Replace rollers as necessary.</p> <p>4. Write work orders as needed for adjustments, cleaning, and/or replacement of rollers.</p>					
CIOSS SYSTEM FOAM ROLLERS	10.	<p>Foam roller checks.</p> <p>1. Check WFOV foam roller in the OCR/Tag printer module. Replace roller if necessary.</p> <p>2. Check the foam rollers in the HSLA module. Replace the roller/s if necessary.</p> <p>3. Check the WFOV foam roller in the Reader Module. Replace the roller if necessary.</p>	2	9		6000	
CIOSS SYSTEM UNDER MACHINE CLEANING	11.	<p>Check for mail under machine.</p> <p>1. Remove foam strips from back side of machine and outer side of Feeder, Transport Section, and Tag scanner.</p> <p>2. Using a flashlight, start at transport, and look for mail pieces under machine, proceed to check for mail to last stacker.</p> <p>3. Remove any mail pieces found.</p> <p>4. Follow local procedures for returning mail to operations for processing.</p> <p>Clean under machine.</p> <p>1. Clean/vacuum any dust and debris found from under machine, recommend start at backside of last stacker and work back to transport and feeder.</p> <p>2. Re-install foam strips to backside of machine.</p>	64	7		78000	
READER MODULE ICS AND WFOV	12.	<p>Reader Module cleaning.</p> <p>1. Clean the ICS read head and associated reflector. Recommended cleaner is Riptide, NSN 6850-01-394-0164, and P/N RIP-TIDE-BX4EA.</p> <p>2. Clean WFOV camera lens and lamp assemblies as follows:</p>	5	7		227	

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	0	3	C	I	O	S	S	A	B	0	0	1	M	
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AI			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.

		<div style="border: 1px solid black; padding: 2px; display: inline-block;">WARNING</div> <p>Use caution when working around WFOV aperture. Edges of aperture may become extremely sharp during machine use.</p>				
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">CAUTION</div> <p>Ensure surrounding transport area is free of dust and debris before removing the Aperture/Illumination assembly. Cleaning or checks should occur only after immediate area is clear of mail dust.</p> <ol style="list-style-type: none"> a. Remove WFOV LED Aperture/Illumination assembly by loosening thumbscrew and pulling unit up. b. Visually check the aperture plates and sapphire glass for foreign objects. c. Remove dust on the exterior of camera sapphire glass using dry cotton swabs. If adhesive build-up is on the sapphire glass, remove it with a soft cloth dampened with a site-approved cleaner. 				
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">CAUTION</div> <p>Do not contact camera LED arrays or diffuser when cleaning inside of sapphire glass.</p> <ol style="list-style-type: none"> d. Clean dust from inside WFOV camera LED assembly with lens brush or air syringe. e. Clean dirt or streaks from LED assembly, using lens brush or optical lens cleaning kit. Carefully, move brush or cleaning media straight down the slot in the Aperture/Illumination assembly while keeping brush or cleaning media pressed to sapphire glass to remove any dust. f. Replace LED assembly and tighten thumbscrew. 				

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	WORK CODE		EQUIPMENT ACRONYM					CLASS CODE		NUMBER			TYPE
	0	3	C	I	O	S	S		A	B	0	0	1
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AJ			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.

READER MODULE COMPUTERS	13.	<p>Clean WFOV and IPC assemblies. Clean WFOV and IPC assemblies as follows:</p> <ol style="list-style-type: none"> Slide out WFOV processor slide shelf. Remove cover from WFOV processor. Clean assembly interior, using vacuum cleaner. Replace cover. Slide WFOV processor slide shelf back. Repeat process for IPC computer. 	15	10		6000	
ADDRESS PRINTER MODULE: FILTERS	14.	<p>Address Printer service.</p> <ol style="list-style-type: none"> Open printer access door. Slide printer out to fullest extended position. Refer to the SCITEX Service Guide, Section 6 for maintenance procedures and filter locations used in the maintenance of the IJP. Remove printer base top cover (three sided attached by four captive screws at rear of printer). Locate the vacuum regulator filter (NSN 4310-06-000-8555, P/N 0181227) in the fluid system compartment. This filter is held in place by a bracket that is mounted to the fluid system enclosure behind the IJC board. Remove and replace filter. Locate the vent filter assemblies (NSN 4310-06-000-8548, P/N 0178610) in the fluid system compartment. These filters are located on top of the fluid supply housing near the vacuum elbow. Remove and replace filters. Re-install printer base top cover (3 sided, attached by four captive screws at rear of printer). Open front door of printer. Locate the mist filter (NSN 4310-06-000-8556, P/N 0187283), inside the mist filter fitting, centered above the ink and replenisher containers. 	9	9		39000	

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	WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
	0	3	C	I	O	S	S	A	B	0	0	1	M	
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AI			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.

		<div style="border: 1px solid black; padding: 2px; display: inline-block;">WARNING</div> <p>When disposing of ink or ink saturated waste, refer to procedures outlined in current Material Safety Data Sheets (MSDS).</p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 10px 0;">CAUTION</div> <p>A clogged or dirty mist filter will leak ink. To avoid contact with ink, wear latex gloves.</p> <p>12. Remove and replace filter.</p> <p>13. Close front door of printer.</p> <p>14. Slide printer back to normal operating position.</p> <p>15. Close the access door to the IJP.</p>					
ADDRESS PRINTER MODULE MAIN AND INLINE FILTERS	15.	<p>Ink Jet Printer service.</p> <p>1. Open CIOSS access door to printer.</p> <p>2. Slide printer out to fullest extended position.</p> <p>3. Refer to the SCITEX Service Guide, Section 5 for maintenance procedures and filter locations used in the maintenance of the IJP.</p> <p>4. Remove the printer top cover.</p> <p>5. Locate Inline Fluid Filter Assemblies (NSN 4310-06-000-8551, P/N 0178613). These filters are located on supply lines between ink supply or replenished outlets and corresponding fill valves.</p> <p>6. Remove and replace the filters.</p> <p>7. Locate Main Filter Assembly (NSN 4310-06-000-8549, P/N 0178611). This filter is mounted on fluid supply assembly.</p> <p>8. Remove and replace the filter.</p> <p>9. Locate the positive air filter (NSN 4310-06-000-8552, P/N 0178615). This filter is mounted on top of the air pump assembly in the fluid compartment.</p>	8	10		78000	

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		0	3	C	I	O	S	S	A	B	0	0
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model				Bulletin Filename MM08129AJ			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;">WARNING</p> <p>When disposing of ink or ink saturated waste, refer to procedures outlined in current Material Safety Data Sheets (MSDS).</p> <p style="text-align: center;">CAUTION</p> <p>A clogged or dirty mist filter will leak ink. To avoid contact with ink, wear latex gloves.</p> <p>10. Remove and replace the filter.</p> <p>11. Re-install top cover.</p>					
HIGH SPEED LABEL APPLICATOR (HSLA) MODULE OTHER SIDE ID TAG READER	16.	<p>Clean the OSR (ICS3) read head and associated reflector:</p> <p>Recommended cleaner is Riptide, NSN 6850-01-394-0164, P/N RIP-TIDE-BX4EA 4.</p>	1	7		227	
HIGH SPEED LABEL APPLICATOR (HSLA) MODULE DOUBLES DETECTOR	17.	<p>Using lens paper or optics brush:</p> <p>Clean the Doubles Detector glass window. The window is accessed via the rectangular opening in the side of the unit.</p>	1	7		227	
HIGH SPEED LABEL APPLICATOR (HSLA) MODULE CLEANING HSLA 1 & 2	18.	<p>Check and clean HSLA1 and HSLA2.</p> <p style="text-align: center;">CAUTION</p> <p>Do not use strong, caustic, or solvent-based liquids for cleaning HSLA. Do not apply a liquid directly on machine. Apply liquid to cleaning cloth, and then use the cloth to clean HSLA. Failure to comply may result in damage to HSLA.</p> <p>1. Check and clean HSLA 1 and HSLA 2 as follows.</p> <p>a. Unlock and pull the HSLA application slide outward to its service position.</p> <p>b. Remove label material from HSLA if not previously removed.</p>	7	7		227	

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		<ol style="list-style-type: none"> 2. Remove the guiding and shaping area cover plate, located at the vacuum/guide-shaping areas, and clean as required. 3. Using Simple Green, or equivalent, clean any glue and /or dust from guiding and shaping unit. 4. Replace the guiding and shaping area cover plate when completed. 5. Using Simple Green, or equivalent, clean any glue and/or dust from the surface of the applicator drum. <ol style="list-style-type: none"> a. Loosen the two captive screws securing the application head to the cutter unit using a 5 mm hex key. b. Raise application head until it reaches its stop limit, and place in service position. c. Check moving and stationary blades for damage, debris, and adhesive build-up. Take corrective action as needed. d. Ensure cutter unit area is free of label material slivers and adhesive build-up. e. Rotate or replace moving blade as required in accordance with MS-227, Vol. A. 					
HIGH SPEED LABEL APPLICATOR (HSLA) MODULE TURBINE FILTERS	19.	<p>Clean the vacuum turbine control unit filters.</p> <ol style="list-style-type: none"> 1. Unlock and open the 2 front doors in the module immediately to the left of the HSLAs. 2. Locate air filter grills on both sides of control units for 2 vacuum turbine assemblies. 3. Remove (unsnap) the 4 air filter grills. 4. Remove air filter elements from air filter grills. 5. Wash the air filter elements in clean, warm, soapy water. 6. Thoroughly rinse the air filter elements in clean water. 7. Blot the air filter elements in paper towels to 	18	7		1500	

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		<p>remove as much moisture as possible.</p> <p>8. Air dry filter elements.</p> <p>9. Put an air filter element into left air filter grill with blue surface of air filter element oriented toward exterior of the control unit. Put an air filter element into right air filter grills with the white surface of the air filter element oriented toward the exterior of the control unit. Snap air filter grills in place directly adjacent to fan on each side of control units.</p> <p>10. Repeat steps 2 thru 9 with the remaining vacuum turbine control unit.</p>					
HIGH SPEED LABEL APPLICATOR (HSLA) MODULE VACUUM PUMP CLEANING	20.	<p>Vacuum pump cleaning and servicing.</p> <p>1. Locate the two vacuum turbines. Open the vacuum turbine air filter assemblies. Clean the vacuum turbine air intake assembly and the air filters. Replace filters as necessary.</p> <p>2. Close vacuum turbine air filter assemblies.</p> <p>3. Close and lock the front door.</p>	5	7		1500	
OCR/TAG PRINTER MODULE ICS, WFOV/OCR, ID TAG PRINTER	21.	<p>OCR/Tag Printer module cleaning.</p> <p>1. Clean the ICS read head and associated reflector. Recommended cleaner is Riptide, NSN 6850-01-394-0164, and P/N RIP-TIDE-BX4EA.</p> <p>2. Clean WFOV camera lens and lamp assemblies as follows:</p> <p style="text-align: center;">WARNING</p> <p>Use caution when working around WFOV aperture. Edges of aperture may become extremely sharp during machine use.</p> <p style="text-align: center;">CAUTION</p> <p>Ensure surrounding transport area is free of dust and debris before removing the Aperture/Illumination assembly. Cleaning or checks should occur only after the immediate area is clear of mail dust.</p>	10	7		227	

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		<p>a. Remove WFOV LED Aperture/Illumination assembly by loosening thumbscrew and pulling unit up.</p> <p>b. Visually check the aperture plates and sapphire glass for foreign objects.</p> <div style="text-align: center; border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> CAUTION </div> <p>Do not contact the camera LED arrays or diffuser when cleaning the inside of the sapphire glass.</p> <p>c. Remove dust on the exterior of camera sapphire glass, using dry cotton swabs. If adhesive build-up is on sapphire glass, remove it with a soft cloth dampened with a site-approved cleaner.</p> <p>d. Clean dust from inside WFOV camera LED assembly with a lens brush or air syringe.</p> <p>e. Clean dirt or streaks from LED assembly, using a lens brush or optical lens cleaning kit. Carefully, move brush or cleaning media straight down slot in Aperture/Illumination assembly while keeping brush or cleaning media pressed to the sapphire glass to remove any dust.</p> <p>f. Replace LED assembly and tighten thumbscrew.</p> <div style="text-align: center; border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> WARNING </div> <p>When disposing of ink or ink-saturated waste in following steps, refer to procedures outlined in Material Safety Data Sheets (MSDS). Eye protection (goggles or face shield) must be worn when flushing away contaminants using makeup ink.</p>					
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		<div style="border: 1px solid black; padding: 2px; display: inline-block;">WARNING</div> <p>The Imaje Ink Jet Printer (IJP) print head must be dried as a part of its service. Do not use compressed or blown air. Appropriate, alternate means of drying head must be implemented and may include use of paper towels or use of vacuum suction. Other, equally effective methods may be determined locally.</p>				
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">CAUTION</div> <p>Use extreme care in charge tunnel area. Do not touch or bump charge tunnel area during checks or cleaning.</p>				
		<p>3. Clean the Imaje ID Tag printer print head and guide plate (fence) as follows:</p> <ol style="list-style-type: none"> a. Lift fence off its mounting studs. b. Remove print head from deck plate mount. c. Install print head onto service mount, and place service tray directly below it. d. Clean base plate of any ink, using towel and cleaning solution or replenished fluid. e. Clean fence using a towel and cleaning solution or replenished fluid. f. Clean up any spilled or splattered ink. g. Remove print head cover and check print head assembly for traces of ink. h. Clean print head as required in accordance with Imaje S7 Supra Postal User Guide (NSN 7610-07-000-5515, P/N 0250235), Chapter 3, Page 3-1, Paragraph A. i. Replace print head cover and re-install print head onto deck plate mount. j. Re-install fence on mounting studs. 				
		4. Ink jet printer fluid replenishment.				

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		<p style="text-align: center;">NOTE</p> <p style="text-align: center;">Do not use expired ink.</p> <p style="text-align: center;">NOTE</p> <p>Retain empty Imaje cartridges. Empty cartridges are required for draining and flushing Imaje printers.</p> <ol style="list-style-type: none"> a. Check and replenish (if necessary) Imaje ID Tag printer fluid bottles. b. Remove and retain ink or make-up ink cartridge if empty. <p style="text-align: center;">NOTE</p> <p>Cartridge holder is common to both ink and replenished fluid. Ink and replenisher fluid cartridge holders are located on the right side of printer. The ink cartridge holder is towards the front and the replenisher fluid cartridge holder is installed towards the back of printer.</p> <ol style="list-style-type: none"> 1) Insert new bottle of ink or make-up ink into cartridge holder. 2) Install new cartridge holder. c. Clean up any spilled or splattered ink. 					
FEEDER MODULE MONITOR KEYBOARD PRINTER	22.	<p>Feeder module.</p> <ol style="list-style-type: none"> 1. Clean exterior of monitor, keyboard, printer, and printers stand. 2. Ensure the laser printer has paper. If it has run out of paper, replace paper following instruction In MS-214, Volume B. 	2	7		227	
FEEDER MODULE HARDWARE	23.	<p>Check feeder wear items as follows:</p> <ol style="list-style-type: none"> 1. Teflon strip. 2. Rubber strippers. 3. Pick-off belts. 4. Replace as required. (Refer to the most recent Maintenance Management Order 	5	9		227	

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		covering feeder alignment and performance adjustments.)					
FEEDER MODULE ALIGNMENT CHECK	24.	<p>Check Feeder alignment (those steps that do not require power) using template NSN 5220-04-000-5005 in accordance with the most recent Maintenance Management Order covering feeder alignment and performance adjustments.</p> <p>If any discrepancies are found write a work order to do a full feeder alignment.</p>	13	9		1500	
FEEDER MODULE REPORT PRINTER	25.	<p>Report printer cleaning and paper check.</p> <ol style="list-style-type: none"> Clean report printer using a vacuum cleaner. Ensure there is a sufficient amount of paper to support at least three tours of operation; add paper as necessary. 	2	7		1500	
LEVELER MODULE BASE PLATE AMD IMAJE PRINTER	26.	<p>Leveler module cleaning, checks, and fluid replacement.</p> <ol style="list-style-type: none"> Clean the Imaje POSTNET bar code printer print head and guide plate (fence) as follows: <p style="text-align: center;">WARNING</p> <p>When disposing of ink or ink-saturated waste, refer to procedures outlined in Material Safety Data Sheets (MSDS). Eye protection (goggles or face shield) must be worn when flushing away contaminants using makeup ink.</p> <p style="text-align: center;">WARNING</p> <p>Ink Jet Printer (IJP) print head must be dried as part of its service. Do not use compressed or blown air. Appropriate, alternate means of drying head must be implemented and may include use of paper towels or use of vacuum suction. Other, equally effective methods may be determined locally.</p> <p style="text-align: center;">CAUTION</p> <p>During print head check and cleaning, use extreme care in charge tunnel area. Do not touch or bump charge tunnel.</p>	15	7		300	

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		<ol style="list-style-type: none"> a. Lift fence off its mounting studs. b. Remove print head from deck plate mount. c. Install print head onto service mount and place service tray directly below it. d. Clean base plate of any ink, using towel and cleaning solution or replenisher fluid. e. Clean fence using a towel and cleaning solution or replenisher fluid. f. Clean up any spilled or splattered ink. <ol style="list-style-type: none"> 1) Remove print head cover, and check print head assembly for traces of ink. 2) Clean print head as required in accordance with Imaje S7 Supra Postal User Guide (NSN 7610-07-000-5515, P/N 0250235), Chapter 2, Page 2-1, Paragraph B. g. Replace print head cover and re-install print head onto deck plate mount. h. Re-install fence on mounting studs. <p>2. Ink jet printer fluid replenishment.</p> <ol style="list-style-type: none"> a. Check and replenish Imaje POSTNET printer fluid bottles. <p style="text-align: center;">NOTE</p> <p style="text-align: center;">Do not use expired ink.</p> <p style="text-align: center;">NOTE</p> <p>Retain empty Imaje cartridges. Empty cartridges are required for draining and flushing Imaje printers.</p> <ol style="list-style-type: none"> b. Remove and retain ink or make up ink cartridge if empty. 					
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NOTE							
		<p>Cartridge holder is common to both ink and replenisher fluid. Ink and replenisher fluid cartridge holders are located on the right side of printer. The ink cartridge holder is towards the front and replenisher fluid cartridge holder is installed towards the back of printer.</p> <p>c. Insert new bottle of ink or make-up ink into cartridge holder.</p> <p>d. Install new cartridge holder.</p> <p>e. Clean up any spilled or splattered ink.</p>					
STACKER MODULE LABEL PRINTERS	27.	<p>Tray label printers cleaning and label stock loading.</p> <p>1. Clean interior and exterior of label printers, located on first and eighth stacker modules.</p> <p>2. Ensure label printers are loaded with a sufficient supply of label material to support three tours of operation. If required, load the label printer:</p> <p>a. Insert label stock between guides into back of label printer.</p> <p>b. Place wide end of label stock into label printer first, face down.</p> <p>c. Push print head lever back.</p> <p>d. Push label stock through until it comes out front of label printer.</p>	2	7		227	
STACKER MODULE GENERAL HARDWARE	28.	<p>1. Open covers and remove panels. In the Stacker section, open or remove all machine panels, this includes diverter plate cover assemblies (Wimpy panels) and stacker lower front panel assemblies.</p> <p>2. Clean stacker module. Clean all plates, covers, doors, framework, top of stacker modules, stacker display panels back and front side, etc. Do a visual check of wiring harnesses, cabling, and connector for wear, loose connections, etc., while cleaning.</p>	91	7		6000	

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STACKER MODULE POWER SUPPLIES	29.	<p>Power supply cleaning.</p> <ol style="list-style-type: none"> 1. Remove the covers on the power supplies located in each stacker module. 2. Using an approved vacuum cleaner, clean the inside of each power supply assembly. 3. Install the covers. 	21	9		6000	
CIOSS SYSTEM RESTORE POWER	30.	<p>System power up.</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;">WARNING</div> <p>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.</p> <p>Power up preparation. Ensure tools and materials are removed from work area. Replace all machine panels. Close all machine doors and covers.</p> <p>Restore power to equipment. Restore power to equipment as prescribed by the current local procedures providing lockout/restore procedures. To restore power move the main disconnect switch to the ON position. Once system power is restored, the system computer automatically powers up to the logon screen.</p>	7	7		1	
CIOSS SYSTEM COMPUTERS AND PRINTERS	31.	<p>Power on computer systems. Ensure Image Processing Computer (IPC) is powered on and boots up correctly, prior to powering on and booting CIOSS system computer. If CIOSS system computer becomes operational before IPC, CIOSS system computer may not establish communication with IPC during start up routines.</p> <p>IJP printers start up. Start up Imaje printers in accordance with Imaje S7 Supra Postal User Guide (NSN 7610-07-000-5515, P/N 0250235), Chapter 3, Page 3-1, and Paragraph A. Start up Address Printer in accordance with Scitex Service Guide, Chapter 7, Page 13. Check printers for proper operation after restoring CIOSS to normal operating conditions.</p>	18	10		1	

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CIOSS SYSTEM: DIRECTORY DOWNLOAD	32.	<p>Directory downloads FIN files from NDSS. Download FIN files as follows:</p> <ol style="list-style-type: none"> From level three DIOSS Main Menu, select Disk Base Lookup. From Disk Base Lookup Menu, select Reload FIN Files From NDSS. Select YES to answer prompt, "Do you want to reload FIN files from NDSS?" Click OK when message "Reload FIN files completed" appears. Press F1 three times to return to Main Menu. 	2	10		1500	
CIOSS SYSTEM EMERGENCY AND INTERLOCK SWITCHES	33.	<p>Check E-Stops and interlocks.</p> <p style="text-align: center;">NOTE</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>Check all system interlocks and emergency stop switches. 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"> 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. Press EMERG STOP mushroom switch on feeder control panel assembly and note that following occurs: <ol style="list-style-type: none"> Machine stops immediately. Lamp lights in EMERG STOP switch. Red EMERG STOP indicator lights on appropriate system control panel column. READY lamp goes out on system 	18	7			M

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		<p>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 goes out 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> <p>h. Machine can now be started.</p>					
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		<p>4. Without starting and stopping machine, check all remaining EMERG STOP mushroom switches one at a 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>					
CIOSS SYSTEM ICS READERS INSPECT	34.	<p>ID Tag Reader System electrical enclosure inspection.</p> <p>Use the most recent Maintenance Management Order covering ICS ID-Tag reader system electrical enclosure inspection to perform procedures on all three ICS readers in order to locate enclosures with defective power supplies, switches not configured properly, incorrect lamps, and lamps not installed properly.</p>	15	10		6000	
CIOSS SYSTEM WFOV ALIGNMENT	35.	<p>WFOV alignment.</p> <p style="text-align: center;">NOTE</p> <p>Alignment and adjustment procedures can be found in the MS-214, Volume B, Section 4.6.4.</p> <ol style="list-style-type: none"> 1. Perform an alignment on the WFOV in the OCR/Tag Printer module. 2. Perform an alignment on the WFOV in the Reader module. 3. Log off the system computer. 	8	10		6000	

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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.

ADDRESS PRINTER MODULE: PURGE, DRAIN, FILL, VALIDATE	36.	<p>Address Printer servicing.</p> <p>1. Address printer purge. Perform a purge procedure on the printer using following steps:</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"> <p>CAUTION</p> </div> <p>Do not touch or bump the charge tunnel during Imaje ID Tag and POSTNET printers during print head checks, cleaning, or adjusting.</p> <p>a. Power the printer ON with the fluid system bypassed. To turn on the Address Printer and bring it up in bypass mode, perform the following steps:</p> <ol style="list-style-type: none"> 1) Press and hold OPEN EYELID. Press and release PRINTER ON. <ol style="list-style-type: none"> a) When all lights on the operator panel come on, release OPEN EYELID. b) The PRINTER ON lamp remains lit and does not flash. 2) The printer is up in bypass mode, (Fluid System off and Power On Check (POC)) bypassed. <p>b. Remove the print head front and rear covers.</p> <p>c. Turn the AB switch to enable communication with the laptop diagnostic computer (turn to B for normal configuration).</p> <p>d. Power ON the laptop computer and enter the Jetscape software diagnostics by typing GO DIAG at the DOS prompt.</p> <p>e. To empty the print head:</p> <ol style="list-style-type: none"> 1) From the fluid system menu, choose Select State Table Type, Select Purge. 2) From the fluid system menu, select Print head to State #, Select 3. 	125	10		39000	
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	0	3	C	I	O	S	S			A	B	0	0	1	M
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model						Bulletin Filename MM08129AJ			Occurrence eCBM				

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		<p>3) Disconnect print head filter from its clip.</p> <p>4) Disconnect the catcher quick-disconnect.</p> <p>5) Disconnect twist connector on inlet tube.</p> <p>6) Wait a few minutes to allow the print head to drain into the ink supply.</p> <p>7) Then, isolate the print head. Reconnect the catcher quick-disconnect.</p> <p>8) Disconnect twist connector on outlet tube.</p> <p>9) Connect the manifold sides of ink inlet tube and ink outlet tube together.</p> <p>10) After purge is complete, reconnect fluid system tubing to original operating configuration.</p> <p>f. Press PRINTER ON to turn off the printer.</p> <p>2. Address printer drain. Perform a drain procedure on the printer using following steps:</p> <div style="text-align: center; border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> WARNING </div> <p>When disposing of ink or ink-saturated waste, refer to procedures outlined in Material Safety Data Sheets (MSDS) and local procedures already established. Eye protection (Goggles or face shield) must be worn when flushing away contaminants using replenisher.</p> <div style="text-align: center; border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> WARNING </div> <p>Imaje Ink Jet Printer (IJP) must be dried as part of its service. Do not use compressed or blown air. Appropriate, alternate means of drying head must be implemented and may include use</p>				
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		<p>of paper towels or use of vacuum suction. Other equally effective methods may be determined locally.</p> <ol style="list-style-type: none"> a. Open the ink compartment door, and remove both the ink and replenisher bottles by pressing the quick disconnect release buttons and pulling the bottles from the support bracket. b. Locate a waste ink container with a capacity of at least 1.5 liters and a drain tube. The drain tube can be identified by a quick disconnect fitting on one end and a black o-ring and black screw-type fitting on the other end (not used). <p style="text-align: center;">NOTE</p> <p>Be prepared to collect ink as soon as drain tube is installed in drain connector. Draining is gravity fed and waste ink container must be lower than bottom of ink tank.</p> <ol style="list-style-type: none"> c. Elevate the printer base above the top of the waste container. d. Locate drain quick-disconnect fitting at the bottom of the front panel (between where the ink and replenisher bottles were removed). e. Place the drain tube (the end with the black screw type fitting) into a waste ink container, and press the quick-disconnect fitting end into the drain quick-disconnect until it locks into place with a click. f. Continue supporting the waste ink container and drain tube until the ink tank is completely drained. g. Place a lid on the waste ink container to prevent ink from spilling, and carefully remove the drain tube to minimize ink spill. 						
		3. Address printer fill. Perform a fill procedure						

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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>on the printer using the following steps:</p> <ol style="list-style-type: none"> a. Place a new full ink bottle and a new replenisher bottle into the printer and close the front door. <div style="text-align: center; border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> CAUTION </div> <p>Start Address Printer in bypass mode correctly. Failure to do so will result in the ink tank being filled with replenisher instead of ink, in which case this procedure will have to be repeated.</p> <ol style="list-style-type: none"> b. Turn on the Address Printer and bring it up in bypass mode. <ol style="list-style-type: none"> 1) Press and hold OPEN EYELID. Press and release PRINTER ON. <ol style="list-style-type: none"> a) When all lights on the operator panel come on, release OPEN EYELID. b) The PRINTER ON light remains lit, and does not flash. 2) The Address Printer is up in bypass mode (Fluid System off and Power on Check (POC) bypassed). c. Ensure the laptop computer is connected to the Address Printer and launch Jetscape Diagnostics by typing GO DIAG, at the DOS prompt. From the Fluid System pull-down menu, choose Select State Table Type. d. Use the Spacebar to select Circulate, and then press Enter twice to save selection. e. From Fluid System pull-down menu, choose Print head to State #, and press Enter. f. Type in the number 2, and press Enter twice to begin the ink tank fill sequence. g. Allow 3-5 minutes for the ink tank to begin to fill. The operation will stop before the ink tank has been refilled. 					
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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>h. When the ink flow stops and the Print head to State dialog box reappears, press Enter. If an error message box appears, press Esc or press EYELID OPEN BUTTON to clear error message.</p> <p>i. Type in the number 6, and press Enter twice to begin ink circulation.</p> <p>j. Allow ink to circulate for about 5 minutes.</p> <p>k. Press F4 to command the Print head to the down state (Fluid System Off).</p> <p>l. After Address Printer ON lamp stops flashing:</p> <ol style="list-style-type: none"> 1) Press and release PRINTER ON. 2) After the PRINTER ON lamp stops flashing. 3) The PRINTER ON light remains lit. <p>m. Enable Address Printer to communicate with system computer (move AB switch from B to A).</p> <p>n. Exit Jetscape Diagnostics. Put away laptop.</p> <p>o. Close all doors and covers.</p> <p>4. Validation of HSLAP CIOSS functionality.</p> <ol style="list-style-type: none"> a. Select Maintenance from the Main menu. b. Select System Test from Maintenance menu. c. Select Label Module Test from the System Test menu. d. Select Label Test from the Label Module Test menu. e. On the Label Test screen, select following: <ol style="list-style-type: none"> 1) Label Applicator #1. 2) Label Applicator #2. 3) Print Bar code. 					
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	0	3	C	I	O	S	S		A	B	0	0	1	M
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		4) Label Printer. f. Locate approximately 20 blank cards (9.5" x 4.25"). g. Start the machine by pressing start button and feed blank cards. h. Verify the cards are sorted to the correct pockets, Label OK LA1 and Label OK LA2. i. Visually verify the address and bar code information is legible and free from streaks or other anomalies. j. Remove the test deck from the machine. k. Select DBCS Mode from the CIOSS Main Menu to bring the Address Printer to the Standby condition.					
OCR/TAG PRINTER MODULE IMAJE ID TAG PRINTER	37.	<p>Perform an auto-calibration on the ID Tag Imaje IJP.</p> <p style="text-align: center;">WARNING</p> <p>When disposing of ink or ink-saturated waste, refer to procedures outlined in Material Safety Data Sheets (MSDS) and local procedures already established. Eye protection (Goggles or face shield) must be worn when flushing away contaminants using replenisher.</p> <p style="text-align: center;">WARNING</p> <p>The Imaje Ink Jet Printer (IJP) must be dried as part of its service. Do not use compressed or blown air. Appropriate, alternate means of drying the head must be implemented and may include the use of paper towels or use of vacuum suction. Other equally effective methods may be determined locally.</p> <p>Refer to Imaje S7 Supra Postal User Guide (NSN 7610-07-000-5515, P/N 0250235), Chapter 4, Page 4-7, Paragraph F.</p>	60	10		6000	

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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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FEEDER MODULE ALIGNMENT CHECK W/POWER	38.	<p>Feeder alignment checks with power applied.</p> <ol style="list-style-type: none"> 1. Check bottom belt for proper tracking. If needed, adjust belt tension and tracking by adjusting two tension adjusting bolts. 2. Check P-GL4 timing disk assembly. Ensure timing disk is not rubbing sensor on P-GL4 card and there is no dust in timing holes. Use oscilloscope to verify wave shape is correct amplitude at pin # 5, if necessary. 3. Check transport switch S-10. Verify transport LED goes out when transport blade is 0.5 to 1.0 mm from pickoff belts. Adjust S-10 if necessary. 4. Check alignment of letter present sensor switch. Place transport blade 75 mm from pickoff belts. Place a white piece of paper on jogger side of transport blade, ensuring hole is covered. Rotate potentiometer CCW until letter present indicator on sensor goes off. Rotate potentiometer CW until letter present indicator just comes on (stability LED on steady if applicable). Leave at this setting. 5. P-DZ80 — P-LS80 or P-SEN10 — P-LED10 light barrier alignment. Ensure slide is closed. Place ruler across transport pinch point rollers with edge of ruler across centerline of both pinch point rollers. Looking straight down, verify center of last diode pair is even with ruler edge (position may be up to 4 mm downstream from ruler edge). Adjust, if necessary. Verify P-DZ80/P-SEN10 is level. Adjust, if necessary. Check guide fence surfaces for wear and sharp edges. 6. Check slide switch. With slide CLOSED, roller should rest at peak of cam. Slide LED goes OFF when cam is no more than halfway down cam slope. Adjust, if necessary. 7. Check proximity switch and actuating vane. Adjust proximity switch to 0.25 mm between 	13	9		1500	
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		<p>vane and proximity switch. Adjust vane until BTM TRSP BELT LED goes out between 1.0 to 1.5 mm.</p> <p>8. Set gap switch. Set DBCS-5, SBCS-5, OCRs-3, DIOSS is software controlled.</p> <p>9. Fine tune proximity switch (S-7) vane. Check performance of feeder. Run test deck in Fan Sort or Mail Processing mode. Run at least 2000 cards (NSN 3915-07-000-0155). Observe operation of feeder and adjust proximity switch (S-7) vane (or new proximity switch adjustable bracket) as necessary for a smooth mail flow. Check mechanical reject bin. Print out and analyze report statistics.</p> <p>10. Perform operations check. At first opportunity after live mail has run, obtain End of Run (EOR) report for machine performance. Analyze EOR report.</p>					
LEVELER MODULE IMAJE POSTNET IJP	39.	<p>Perform an auto-calibration on the POSTNET Imaje IJPs.</p> <p style="text-align: center;">WARNING</p> <p>When disposing of ink or ink-saturated waste, refer to procedures outlined in Material Safety Data Sheets (MSDS) and local procedures already established. Eye protection (Goggles or face shield) must be worn when flushing away contaminants using replenisher.</p> <p style="text-align: center;">WARNING</p> <p>The Imaje Ink Jet Printer (IJP) must be dried as part of its service. Do not use compressed or blown air. Appropriate, alternate means of drying the head must be implemented and may include the use of paper towels or use of vacuum suction. Other equally effective methods may be determined locally.</p> <p>Refer to Imaje S7 Supra Postal User Guide</p>	60	10		6000	

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		(NSN 7610-07-000-5515, P/N 0250235), Chapter 4, Page 4-7, Paragraph F.					
STACKER MODULE: FULL BIN SWITCH CHECK	40.	<p>Stacker bin-full switch checks.</p> <ol style="list-style-type: none"> 1. Pull each stacker blade to its 3/4 full position, and note that it's associated red indicator on stacker module display panel flashes and stacker module horn beeps. Note defective stacker switches. 2. Pull each stacker blade to its full position, and note that its associated red indicator on stacker module display panel is constantly illuminated and stacker module horn beeps. Note defective stacker switches. 3. Notify supervisor of defective stacker switches and initiate a work order to repair or replace as necessary. 	7	7		1500	
CIOSS VALIDATION LABEL PRINTER VERIFICATION	41.	<p>Tray label printer verification procedures.</p> <p>Label printer located in the stacker modules. Verify label printer operation as follows:</p> <ol style="list-style-type: none"> 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 and is readable. 	2	9		3	
CIOSS VALIDATION MACHINE VALIDATION	42.	<p>Mail path validation. Check basic machine functions as follows:</p> <ol style="list-style-type: none"> 1. Turn Maintenance Mode key switch on operator control panel to MAINT position. Start machine. 2. 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. Horns sound for 5 seconds and go off, while warning indicators continue to flash for a total of 10 seconds. 3. Do a visual and audible check of 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. 	4	9		3	

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		<ol style="list-style-type: none"> 4. Proceed to end stacker and press Emergency Stop button. Verify machine stops. 5. If machine fails to stop, notify supervisor and refer to the most recent Maintenance Management Order or document covering the SBK-11 Backplane Switch Configuration. 6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel. 					
CIOSS VALIDATION WFOV/WABCR TEST DECK	43.	<p>WFOV validation (OCR and WABCR). Run WABCR 300 piece test deck (NSN 5210-01-371-4906, P/N 031-00000037) as follows:</p> <ol style="list-style-type: none"> 1. From Main Menu screen, select OCR mode. 2. Load the sort plan for the WFOV test deck. 3. Select Display ZIPs/Pkts and Online Display. 4. Run the test deck. 5. On the screen, validate the ZIP results for the Pre-WABCR and the WABCR are the same. A small number of discrepancies are acceptable (less than 5). 6. Print End of Run Report, if required. 7. Validate the test deck was sorted to the correct pockets. 8. Recover test deck from stackers. 9. If any problems are found, notify supervisor. 	8	9		3	
CIOSS VALIDATION POSTNET IJP VALIDATION	44.	<p>POSTNET IJP validation. Check POSTNET bar code printing as follows:</p> <ol style="list-style-type: none"> 1. From Main Menu, select Maintenance, System Tests, and then Bar Code Printer Test. 2. At ZIP Code field, type in a 5 digit ZIP Code. 3. At Carrier Route field, type in from 1-4 ASCII characters. 4. Press F2 key. 5. Start machine with control panel MAINTENANCE MODE key in NORMAL 	4	10		3	

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		<p>mode and feed five blank cards (NSN 5220-03-000-5975, P/N CO-2823NH).</p> <p style="text-align: center;">NOTE</p> <p>Right edge of letter to left framing bar should be 4 1/8" to 4 1/4". Bottom of bars should be even and 1/4" +/- 1/16" above bottom edge.</p> <p>6. Check bar codes for location and quality.</p> <p>7. If necessary, align with procedures in MS 214, Volume B, ID Tag Printer Print Head Adjustment, and repeat test.</p> <p>8. Once satisfactory bar codes are sprayed, press F1 key three times to return to Main Menu screen.</p>					
<p>CIOSS VALIDATION ID TAG IJP PRINTER VALIDATION</p>	45.	<p>ID Tag IJP validation. Check ID Tag as follows:</p> <p>1. From Main Menu, select Maintenance, System Tests, and then ID Tag Printer Test.</p> <p>2. Fill in fields as follows:</p> <ul style="list-style-type: none"> a. Machine Number - between 1-3999. b. Time of Day - between 0-47. c. Day of Month - between 1 - 31. d. Sequence Number - between 1-25,000. e. Mail Class - 1 or 3. <p>3. Press F2 key.</p> <p>4. Start machine with MAINTENANCE MODE key in NORMAL mode and feed five blank cards, NSN 5220-03-000-5975, P/N CO-2823NH.</p> <p>5. Check ID Tag quality and position using the ID TAG template, NSN 9330-03-000-6399, P/N MM959601.</p> <p>6. Make adjustments to Control Module P-IJP02 circuit board and/or ID Tag printer, if needed. Refer to MS Handbook 214, Volume B, Paragraph 4.6.8 ID Tag Printer Print Head Adjustment. Repeat test, if necessary.</p>	2	10		3	

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		7. Save above 5 cards for ICS validation. 8. Once satisfactory bar codes are sprayed, press F1 key three times to return to Main Menu screen.					
CIOSS VALIDATION ICS READER VALIDATION	46.	ICS Reader validation. Validate ICS-3 readers as follows: 1. Set machine up to run in ISS/OCR mode. 2. From ON LINE MAIL PROCESSING screen, select Display ZIPs/Pkts. 3. From Select Display Option screen, select On Line Display. 4. Start machine and re-run 5 test cards saved from the ID Tag IJP validation. 5. At On Line Display Screen, verify that ICS-3 Pre-reader and ICS-3 Verifier detected 5 ID Tags present and they read the same. 6. Stop the machine. 7. Retrieve the cards from the stackers. 8. Start machine and re-run 5 test cards with the ID Tags facing to the front. 9. Stop the machine. 10. Press F1 key to return to ON LINE MAIL PROCESSING screen. 11. Press F1 key to stop mail processing. Click on Yes to exit run and click on Yes to print an End of Run Report. 12. Validate on End of Run report that ID Tags were detected by OSR (opposite side ICS reader).	7	10		3	
CIOSS VALIDATION ICS STRESS TEST	47.	Run the ICS Stress Test Deck by doing the following: 1. Set machine to run DBCS mode using Sort Plan icstst1.ebf or icstst2.ebf. 2. Start machine and run the 10 piece stress deck (NSN 3915-10-000-6361) in normal mail orientation, (ID Tag facing toward the feeder belts).	5	9		3	

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		3. Before ending run, select Interim Run Report. 4. At the On Line Display screen, scroll down to Para. 1.7 ID Tag Report and verify that ICS-3 Pre-Reader and ICS-3 Verifier detected 10 ID Tags present and that they read the same. If needed, print the report. 5. Stop machine and verify cards sorted in accordance with the most current Maintenance Management Order or document covering the procedures for running the ICS ID Tag Reader System 10 Piece Stress Test Deck. 6. Repeat this procedure with mail oriented backwards (ID Tag out from feeder belts). 7. With the Interim Report verify that the Reverse ICS-3 Reader detected 10 ID Tags present. If needed print the report. 8. If the 10 Piece ICS Stress Test Deck fails, write a work order, and refer to the procedures in the most current Maintenance Management Order or document covering the Identification Code Sort (ICS) ID Tag Reader System Electrical Enclosure Inspection.					
CIOSS VALIDATION HSLA ADDRESS PRINTER/DOUBL E DETECTOR VALIDATION	48.	HSLA validation, address printer, and Doubles Detector validation. 1. Select Maintenance from the Main menu. 2. Select System Test from Maintenance menu. 3. Select Label Module Test from the System Test menu. 4. Select Label Test from Label Module Test menu. 5. On the Label Test screen, select following: a. Label Applicator #1. b. Label Applicator #2. c. Print Bar code.	9	9		3	

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		<p>d. Label Printer.</p> <p>6. Using documents from Doubles Detector test deck (NSN 3915-07-000-0157, P/N 506-03184-00), insert documents at an interval of approximately 1/8 to 1/4 inches into a deck of blank cards (9.5" x 4.25" part of NSN 3915-07-000-0155, P/N 506-03171-00).</p> <p>7. Start the machine by pressing Start button.</p> <p>8. Verify the cards are sorted to the correct pockets, Label OK LA1 and Label OK LA2.</p> <p>9. Visually verify address and bar code information is legible and free from streaks or other anomalies.</p> <p>10. Verify label is placed properly on card stock. Label should be place 1 - 2 mm from bottom of document and 5 mm ± 3 mm from the leading edge of document.</p> <p>11. Verify documents from the Doubles Detector test deck are sorted to the doubles pocket.</p>					
CIOS VALIDATION OCR VALIDATION	49.	<p>OCR validation.</p> <p>1. Press Maintenance button on Main Menu screen.</p> <p>2. Press System Tests button on Maintenance screen.</p> <p>3. Press the Sort Tests button on the System Tests screen.</p> <p>4. Press the OCR Test Deck button on the Sort Tests screen.</p> <p>5. Press Start OCR Test Deck button on the OCR Test Deck screen.</p> <p>6. Run the test deck (NSN 3915-07-000-0160, P/N 506-03192-00).</p> <p>7. When finished running the test deck, press Stop OCR Test Deck.</p> <p>8. Report will automatically be displayed on screen. To print the report, press the Print button at the top of the screen.</p> <p>9. Log off the system computer.</p>	3	10		3	

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	WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
	0	3	C	I	O	S	S		A	B	0	0	1	M
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AI			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.

CROSS VALIDATION WFOV 400 PIECE TEST DECK	50.	<p>In OCR Mode, verify WFOV GAR is equal to or greater than 99%.</p> <p style="text-align: center;">NOTE</p> <p>Ensure the read head aperture is clean.</p> <p>Using the WFOV 400 piece test deck (NSN 3915-06-000-8292) do the following:</p> <p>At the Main Menu select:</p> <ol style="list-style-type: none"> 1. Mail Processing. 2. Load run information. 3. Enter 800 for operation number. 4. F2. 5. Load Sortplan. 6. Select ALL button (displays all sortplans). 7. Double Click sortplan WFOV_TDK.EBF. 8. Select Start Mail Processing. 9. Start the machine and process WFOV Test Deck. Ensure WFOV and 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, do a WFOV auto-calibration. 	4	9		1500	
CROSS VALIDATION CERTIFIED MAIL DETECTION VALIDATION	51.	<p>Verify that the WFOV detects certified mail.</p> <p>Using WFOV 400 piece test deck (NSN 3915-06-000-8292, P/N 237A073-2), select 5 test cards with certified mail label.</p> <ol style="list-style-type: none"> 1. Verify that the CIOSS has been completely swept, including the mechanical reject bins, and that there are no fly outs. 2. From the Main Menu select: <ol style="list-style-type: none"> a. Mail Processing. b. Load Run Information Header. c. Enter 800 for Operation Number. d. Select F2 to accept. e. Load sortplan (this will display sortplan for operation number 800). f. Double click sortplan that corresponds to 	5	10		1500	

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Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AJ			Occurrence eCBM					

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		the machine pocket configuration. g. Start mail processing and run WABCR test deck. h. After processing the deck, stop the machine, and print an Interim Run Report. Do not exit the run. i. Verify the test deck sorts the 5 CMD pieces to the CMD pocket.					
CIOSS VALIDATION UAA INTERCEPT WITH AND WITHOUT BARCODES	52.	UAA intercept with and without bar codes. 1. Verify that the OCR engine in OCR mode can intercept UAA without bar code mail: Using the Xanadu Test Deck, NSN 9310-08-000-3865, P/N 66.1026.035-00, do the following: From the Main Menu: a. Select Mode Select. b. OCR. c. Load Run Information. d. Enter Operation Number. e. Select F2 to accept. f. Load a sort plan that has a confirmed UAA pocket assigned. (PARS Special Pockets.ebf assigns pocket 39 for UAA) g. Start Mail Run. h. Access System Components menu. i. Disable Barcode IJP. j. Start mail processing and run UAA test deck. k. Access System Component menu. l. Enable Barcode IJP. m. Print the end of run report. n. Calculate the intercept rate (# confirmed UAA test pieces divided by the total # of test pieces fed, multiplied by 100). o. Verify that at least 90% of the UAA test deck was intercepted.	15	9		1500	

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	0	3	C	I	O	S	S	A	B	0	0	1	M	
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AI			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. Verify that OCR engine in DBCS mode can intercept UAA with bar coded mail:</p> <p>Using Xanadu Test Deck, NSN 9310-08-000-3864, P/N 66.1026.034-00, do the following:</p> <ol style="list-style-type: none"> a. Select Mode Select. b. DBCS. c. Load Run Information. d. Enter Operation Number. e. Select F2 to accept. f. Load a sortplan that has a confirmed UAA pocket assigned. (ParsSpecial Pockets.ebf assigns pocket 39 for UAA.) g. Start Mail Processing and run UAA test deck. h. Print End of Run report. i. Calculate intercept rate (# confirmed UAA test pieces divided by total # of test pieces fed, multiplied by 100). j. Verify that at least 90% of the UAA test deck was intercepted. k. Log off system computer. 					
PREDICTIVE MAINT. ULTRASONIC AND INFRARED SCANS	53.	<p>Predictive maintenance tasks and procedures.</p> <p style="text-align: center;">NOTE</p> <p>While performing all of the Pdm tasks, make a note of any area where excessive vibration, noise, and/or heat are detected. Recommend using the Pdm Form found on the MTSC web site to facilitate recording areas of questionable bearings. Initiate a work order to cover any annotated area that requires additional investigation.</p> <ol style="list-style-type: none"> 1. Prepare machine. <ol style="list-style-type: none"> a. Perform power down procedures. b. Open covers and remove panels. 	200	9		30000	

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Equipment Nomenclature Combined Input Output Sub-System		Equipment Model						Bulletin Filename MM08129AJ			Occurrence eCBM			

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		<p>c. 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).</p> <p>d. Override interlock switches.</p> <p style="text-align: center;">NOTE</p> <p>Rear Main Power Unit must by-pass the magnetic contacts for CIOSS to run.</p> <p>e. Restore power to equipment.</p> <p style="text-align: center;">NOTE</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;">NOTE</p> <p>Use the Long Range Module (cone) on the Ultra-Probe when doing the 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 bearing assemblies, top and bottom of the Transport, for excessive vibration and noise.</p> <p>c. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Drying Turn module, for excessive vibration and noise.</p> <p>d. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the OCR/Tag Printer module, for excessive vibration and noise.</p> <p>e. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Left Computer Rack module, for excessive vibration and noise.</p>					
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		<p>f. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of High Speed Label Applicator module, for excessive vibration and noise.</p> <p>g. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Address Printer module, for excessive vibration and noise.</p> <p>h. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Right Computer Rack module, for excessive vibration and noise.</p> <p>i. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Reader module, for excessive vibration and noise.</p> <p>j. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Leveler module, for excessive vibration and noise.</p> <p>k. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Motor Power Distribution, for excessive vibration and noise.</p> <p>l. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Drying Transport module, for excessive vibration and noise.</p> <p>m. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Tiers 1-4 of the Stacker modules, 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).</p> <p>b. Start CIOSS machine, the machine must be running a minimum of 15 minutes before using non-contact infrared thermometer.</p>					
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Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AJ			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.

		<ul style="list-style-type: none"> c. Scan all terminal connections and connector plugs. d. Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Feeder for abnormal temperature. e. Use non-contact infrared to monitor all terminal connections and connection plugs in the Feeder Distribution Panel for abnormal temperature. f. Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Transport for abnormal temperature. g. Use non-contact infrared to monitor all terminal connections and connection plugs in the Drying Turn module for abnormal temperature. h. Use non-contact infrared to monitor all terminal connections and connection plugs in the OCR/Tag Printer module for abnormal temperature. i. Use non-contact infrared to monitor all terminal connections and connection plugs in the Left Computer Rack module for abnormal temperature. j. Use non-contact infrared to monitor all terminal connections and connector plugs in the High Speed Label Applicator module for abnormal temperature. k. Use non-contact infrared to monitor all terminal connections and connection plugs in the Address Printer module for abnormal temperature. l. Use non-contact infrared to monitor all terminal connections and connection plugs in the Right Computer Rack module for abnormal temperature. m. Use non-contact infrared to monitor to scan all terminal connections and connection plugs in the Drying Transport module for abnormal temperature. 					
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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.

		<ul style="list-style-type: none"> n. Use non-contact infrared to monitor all terminal connections and connection plugs in Leveler module for abnormal temperature. o. Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Reader module for abnormal temperature. p. Use non-contact infrared to monitor all terminal connections and connector plugs in the Motor Distribution Panel for abnormal temperature. q. Use non-contact infrared to monitor all terminal connections and connector plugs in the Stacker Modules, Tiers 1-4 for abnormal temperature. <p>4. Restore equipment to ready status.</p> <ul style="list-style-type: none"> a. Perform Power Down procedures. b. Replace all machine panels. Close all machine doors and covers. Report all deficiencies to your supervisor. c. Restore power by performing the Power Up procedures. 					
FINAL CLEAN UP	54.	Clean up. Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor.	4	All			

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					Run Hours	Pieces Fed (000)	Freq.

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ATTACHMENT 3
CROSS MASTER CHECKLIST

09-CROSS-AB-001-M

Operational Maintenance

Time Total: 81 Minutes

MAINTENANCE MANAGEMENT ORDER

MAINTENANCE MANAGEMENT ORDER

U.S. Postal Service Maintenance Checklist	IDENTIFICATION													
	WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
	0	9	C	I	O	S	S	A	B	0	0	1	M	
Equipment Nomenclature Combined Input Output Sub-System		Equipment Model					Bulletin Filename MM08129AJ			Occurrence Tour				

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>COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shut down and lock out this machine. Open equipment and inspect dust conditions. Check for suspicious dust or unusual debris. If any unusual substance is found notify supervisor prior to proceeding with any further action on the equipment.</p> <p>THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.</p> <p>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>	1	All			
MACHINE LOG	2.	<p>At the beginning of the operation examine machine log. Examine log and bring forward any unresolved problems from the previous tour.</p> <p style="text-align: center;">NOTE</p> <p>Operational checks must be made with machine processing mail in a normal operating mode.</p>	1	10		1	
SYSTEM GENERAL	3.	Every two hours check for unusual sounds, odors. Be alert for unusual sounds, odors, or other indications of potential failure of the CIOSS.	1	9	2		
SYSTEM SAFETY INDICATORS	4.	Every two hours check warning horn and beacons. Check for proper operation of warning horns and beacons on start-ups.	1	9	2		
SYSTEM INDICATORS	5.	Every two hours check lamps. Watch for proper functionality of all indicator lamps during normal machine operations. Correct deficiencies as soon as practical.	1	9	2		
FEEDER	6.	Every two hours observe feeder. Observe feeder for proper operation while checking to see if operators are having processing problems. Initiate corrective action as appropriate.	1	9	2		

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VDT, WFOV CAMERAS	7.	<div style="border: 1px solid black; padding: 5px; text-align: center; margin-bottom: 10px;">WARNING</div> <p>Use caution when working around WFOV aperture. Edges of aperture may become extremely sharp during machine use.</p> <p>Every two hours check the On Line Mail Processing screen. Check current read rate and any fault indicators. Ensure correct sort plan, operating mode, and read rate values are proper for the mail being processed. If MAR or GAR is below acceptable values, check for accumulation of dust and foreign matter on WFOV face plate. Check cooling fan filter for accumulated dust/debris on WFOV computer. Clean as necessary.</p>	3	9	2		
READERS, ICS-3 (3 READERS)	8.	Every two hours check for dirt accumulations. Check exterior of ICS-3 ID Tag Pre-Reader and Verifier Reader for accumulated dust, dirt, and debris. Pay particular attention to the apertures and to the raised portion of the faceplates. Clean as necessary.	3	9	2		
IMAGE INK JET PRINTER, POSTNET	9.	Every two hours check for dirt/ink accumulations. Check POSTNET Ink Jet Printer to ensure there is no build-up of foreign material or accumulation of ink at the print head. Clean as necessary.	2	9	2		
IMAGE INK JET PRINTER, ID TAG	10.	Every two hours check for dirt/ink accumulations. Check ID Tag Ink Jet Printer to ensure there is no build-up of foreign material or accumulation of ink at the print head. Clean as necessary.	2	9	2		
HSLA (BOTH)	11.	Every three hours check for dirt accumulations. Check and remove debris from the HSLA 1 and HSLA 2 areas. Wipe application drum.	2	10	3		
ADDRESS LABEL PRINTER (5120)	12.	Every two hours check for dirt/ink accumulations. Check Address Label Printer print head to ensure there is no build-up of foreign material or accumulation of ink at the bottom plate. Clean as necessary.	2	10	2		

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REJECT STACKER(S)	13.	Every two hours check bar code printing. Check for print quality of POSTNET and ID Tag bar codes as well as quality of address in the address block. Are bar codes smudged or out of tolerance? Correct problems as noted.	1	10	2		
SORTING STACKERS	14.	Every two hours check for missorts. Sample check at least 5 stackers for correct sortation. Verify bar code matches with address block and scheme. Verify mail pieces enter stacker in a uniform manner.	2	10	2		
OVERFLOW STACKER	15.	Every two hours check overflows stacker mail. 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 track blockage problem. Correct problems as noted.	2	10	2		
ACE/Mkat COMPUTER	16.	Every two hours check MPE-watch computer files. Check for jams and fault indications and ensure all performance metrics are meeting the target.	2	9	2		
ADMINISTRATIVE	17.	At the end of the operation, compile the following information: 1. Interim reports taken during the operational run with any abnormalities noted and/or highlighted. 2. Route sheet information. 3. Any work orders generated. 4. Make entries in Machine Logbook of any discrepancies found during the mail run. 5. Turn this information into Maintenance Supervision. Brief personnel coming on duty.	6	10	7		