MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE Maintenance Management Order

- **SUBJECT:** Operational & Operational & Preventive Maintenance Guidelines for the Robotic Containerization System (RCS II)
 - TO: All RCS II Sites

DATE: June 2, 2015

NO: MMO-061-15

FILE CODE: TM4

dpen: mm14124ad

This Maintenance Management Order (MMO) provides Operational & Preventive Maintenance (PM) Guidelines for the Robotic Containerization System (RCS II). **This MMO supersedes MMO-007-08.** This bulletin applies to acronym RCS II and Class Code AB.

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

The work hours represented in this MMO reflect the maximum work hours required to maintain the equipment. Given local conditions, management may modify task frequencies.

The attached master checklists provides tasks to be performed at periodic intervals (Daily, Weekly, Monthly, Semi-Annual, and Operational Maintenance), time required per task, and the minimum skill level for each task.

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.

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.

Maintenance Managers are to use these Preventive Maintenance guidelines when preparing the route sheets for local maintenance personnel. It is the responsibility of each Maintenance Manager to ensure all WARNINGS, CAUTIONS, and NOTES are included with each applicable task as part of the preparation of any local route sheets.

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

Andy L. Henderson Manager (A) Maintenance Technical Support Center HQ Maintenance Operations

Attachments:

- 1. Summary, Workload Estimate for Robotic Containerization System II
- 2. RCS Master Checklist: 03-RCS-AB-001-M: Daily
- 3. RCS Master Checklist: 03-RCS-AB-002-M: Weekly
- 4. RCS Master Checklist: 03-RCS-AB-003-M: Monthly
- 5. RCS Master Checklist: 03-RCS-AB-004-M: Quarterly
- 6. RCS Master Checklist: 03-RCS-AB-005-M: Annual
- 7. RCS Master Checklist: 03-RCS-AB-006-M: Two Year
- 8. RCS Master Checklist: 03-RCS-AB-007-M: Three Year
- 9. RCS Master Checklist: 09-RCS-AB-001-M: Operational

SUMMARY

WORKLOAD ESTIMATE

FOR

ROBOTIC CONTAINERIZATION SYSTEM II

SUMMARY WORKLOAD ESTIMATE FOR RCS II

Days of Operation	Routine Servicing (Hrs/Yr)	Repair* (Hrs/Yr)	Total Servicing & Repair Time	Non- Productive Time **	Total Servicing Per Machine	Operatio + Total S	nal Mainte ervicing	enance
			(Hrs/Yr)	(Hrs/Yr)	(Hrs/Yr)	1	2	3
						Tour	Tours	Tours
5 Day	339.39	67.88	407.27	40.73	447.99	556.33	664.66	
6 Day	396.59	79.32	475.91	47.59	523.50	653.50	783.50	
7 Day	453.79	90.76	544.55	54.45	599.00	750.67	902.34	

NOTES

*Repair estimates based on 20% of servicing. **Based on 10% of total servicing and repair.

ITEM	TASK TIME	MULTIPLIER FACTOR	TOTAL MINUTES
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	5	1	5
			25

CHECKLIST	TOTAL MINUTES
Daily	66
Weekly	35
Monthly	65
Quarterly	75
Annual	86
Two Years	321
Three Years	171

RCS MASTER CHECKLIST

03-RCS-AB-001-M

DAILY

Time Total: 66 Minutes

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Maintenance	Checkl	list	WORK CODE		EQUIPMEN ACRONYM			LASS ODE	NUI	MBER	TYPE
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Equipment Nomenclature		. .	Equipme	ent Model		Bulletin File			Frequen		
Robotic Containeria	zation	System		RCS I		MM14	124A	J		DAILY	
Part or	Item		Task	Statement an	d Instruction		Est.	Min.	-	Threshold	s
Component	No	(ith all current s		ons)	Time	Skill	Run	Pieces	Weeks
							Req (min)	Lev	Hours	Fed	WEEKS
							()			(000)	
SAFETY STATEMENT	1.	-		ALL SAFE wer and a			1	All			
OTATEMENT				s instructi							
				procedure							
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				al substan ior to pr							
				on the equi	•	with any					
		THE US			ED OR BI	Lown Air					
				r. g is requ	ired, an	alternative					
		cleaning	, meth	od such	as a HEF	PA filtered					
				r or a dan							
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				d. Report s r immediat	-						
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				EWP MMO							
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				WARNI	NG						
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				l space a							
				tion setting							
				t. Careles							
				injury o	damage	to the					
		equip	oment.								
				WARNI	NG						
		De ci	tia	when we		dores					
				when wor when p	ower has						
		appli		mon p		NUUII					

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Maintenance (Check	list	WORK CODE			UIPMENT RONYM				LASS ODE	NU	MBER	TYPE
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Robotic Containeriz	zation	System		RU	511		IVI	11/11/4	1Z4A	J		DAIL	
Part or	ltem No			Statemen			(no)		Est. Time	Min. Skill		Threshol	ds
Component	INO		(Comply wi	un an curre	ent salety	precautio	ns)		Req (min)	Lev	Run Hours	Pieces Fed (000)	Weeks
SYSTEM	2.	Check t	he main	tenance	e and fa	ailure lo	q		3	10			
		reports.					0						
			erate the					een					
			k for alar the mac				ems						
SYSTEM	3.	Check v	warning	horns a	nd liat	nts for r	roper		3	9			
	0.	operatio	on. Cheo lamp tes	ck warni			sing	Ū	Ū				
ROBOT	4.		he calib						5	9			
			on of Rol ıtine per on 4.										
GRIPPER	5.	Jog Rol	bot 1 gri	pper to	an ins	pection	positi	on.	1	9			
		Jog Rob	oot 1 grip ons in M	per to a	n inspe	ction po	sition p						
	6.	Check F the Grip	Robot 1 Robot 1 g otest Rou B, Sectio	gripper f utine pe	or prop	er opera	sing	2	9				
ROBOT	7.	calibratio	he calib on of Rol itine per on 4.	bot 2 by	running	g the Ca	libratio	n	5	9			
GRIPPER	8.	Jog Rob	bot 2 gri pot 2 grip ons in M	per to a	n inspe	ction po	sition p		1	9			
	9.	Check F	Robot 2 g	ripper fo tine per	er for proper operation. for proper operation using er instructions in MS-192,					9			
PNEUMATIC	10.	Check r	nain pne	eumatic	air pres		1	7					
SYSTEM			Check main pneumatic panel air pressure Jauge for 75-80 PSI.										
		2. Rep	ort any d	leficienc	ies to s	upervise	or.						
	11.	Check F	Robot 1	main co	onveyo	r air pre	ssure	•	1	7		1	
		1. Che	ck Robo ge for 60	t 1 main	conve	-							
		-	ort any d			upervis	or.						

MMO-061-15

Maintenance Technical Support Center

U.S. Postal S	Service						IDENTIFICA ⁻	TION				
Maintenance	Chack	liet	WORK							NU	MBER	TYPE
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Equipment Nomenclature				ent Model	0		Bulletin File			Frequen	-	
Robotic Containeria		System	Equipine	RCS	S II			1124A	D	riequei	DAILY	
Part or Component	Item No	(Statement		Instruction ety precautio	ne)	Est. Time	Min. Skill		Threshold	s
Component	110	C C	oompiy w		ni sui	ery precoutio	110)	Req	Lev	Run	Pieces	Weeks
								(min)		Hours	Fed (000)	
								·	1			
PNUEMATIC	12.	Check R	obot 1	aripper	air p	ressure		1	7			
SYSTEM					-	uges for 3	5 <u>+</u> 2 PSI.					
		2. Rep	ort any c	deficienci	es to	o superviso	or.					
PNEUMATIC	13.	Check R	obot 2	main co	nvey	yor air pre	ssure.	1	7			
SYSTEM				t 2 main) ± 3 PSI.		/eyor air pi	ressure					
						o superviso	or.					
PNUEMATIC	14.	Check R	obot 2	gripper	air p	ressure		1	7			
SYSTEM				• • •	•	uges for 3	5 <u>+</u> 2 PSI.					
		2. Rep	ort any c	deficienci	es to	o superviso	or.					
SYSTEM	15.	the mad	hine ar as pr	nd lock escribed	out by	oower. Po its electri the cur	cal power		9			
GRIPPER	16.	Robot 1	gripper	r cleanin	g ar	nd check.		4	7			
			g a clea			plate gu oth. Do no						
		cont		plate b		eration of nanually ra						
		3. Cheo dam		per finge	ers	for visible	e physical					
			ck shelf ical dan		spri	ng plunger	for visible					
			ck she ical dan		ing	fingers f	or visible	2				
				ovable cal dama		ness asse						
CONVEYOR	17.	Check F	Robot 1	right an	gle t	transfer b	elts.	2	7			
						nt angle tra issing belt						
			•			o superviso						

U.S. Postal S	Service				IDENTIFICAT			1		
Maintenance	Check	list	WORK CODE	EQUIPMENT ACRONYM		-	LASS ODE	NUI	MBER	TYPE
			0 3 R C			A	B	0	0 1	М
Equipment Nomenclature		_	Equipment Model		Bulletin File			Frequen		
Robotic Containeria	zation	System	RC	S II	MM14	124A	D		DAILY	
Part or	Item		Task Statemer	nt and Instruction		Est.	Min.	-	Thresholds	S
Component	No	((Comply with all curre		ns)	Time	Skill	Run	Pieces	Weeks
						Req (min)	Lev	Hours	Fed	moone
						-			(000)	
GRIPPER	18.	Robot 2	gripper cleanii	ng and check.		4	7			
		1. Clea	n mail contain	ment plate qui	ide shafts					
			g a clean lint fre							
		shaf	ts.							
			ck for smooth							
			ainment plate I ring the plate.	by manually ra	aising and					
		3. Cheo dam	ck gripper fing age	ers for visible	e physical					
			0	a opring plungor	for visible					
			ck shelf lowering sical damage.	g spring plunger						
			ck shelf lowe sical damage.	ring fingers f	or visible					
			ck removable le physical dama		embly for					
CONVEYOR	19.	Check R	obot 2 right an	ale transfer be	alts	2	7			
	10.		-	-						
			ck both Robot 2 ly cracked, torn,							
		2. Repo	ort any deficienc	ies to superviso	or.					
MAIL SEARCH	20.		a mail search. er machine.	Search for mai	il pieces in	6	7			
CLEAN UP	21.	Clean u	p. Ensure all to	ols lubricante	rads etc	2	All			
	21.		oved from the		Report all		7.01			
		deficienc	ies to superviso	or.						
			WAF	RNING						
			autious when v oment when ed.							
SYSTEM POWER	22.	power, a as pres	power. Re and return mach scribed by the ons providing loc	e current loca	onal status al lockout		9			

MMO-061-15									Mair	nte	nan	ce ⁻	Tech	nical	Sup	oort	Cei	nter
U.S. Postal	Service									IDE	ENTIF	ICAT	ION					
Maintenance	Maintenance Checklist)rk De			_		MENT NYM	Г				ASS ODE	NUMBER			TYPE
					R	С	S						Α	В	0	0	1	М
Equipment Nomenclatur Robotic Container	Equipment Model Bulletin Filename Frequency RCS II MM14124AD E							,	AILY									
Part or Component								Thresholds		s								
Component No (Comply							11 3 41	fety precautions) Time Skill Req Lev Run Pieces We (min) Hours Fed (000)					Weeks					

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RCS MASTER CHECKLIST

03-RCS-AB-002-M

WEEKLY

Time Total: 35 Minutes

MMO-061-15					Ма				nical	Supp	ort Ce	nter
U.S. Postal S			WORK		EQUIPMEI		ENTIFIC		LASS	NU	IMBER	TYPE
Maintenance	Check	list	CODE 0 3	RC	ACRONY	M			ODE B	0	0 2	М
Equipment Nomenclature Robotic Containeri		System	Equipmer	_				ilename 14124A	D	Freque	-	Y
Part or	ltem No				nd Instruction safety precau		.)	Est. Time	Min. Skill		Threshold	s
Component	NO		Comply with		salety precat		»)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Weeks
SAFETY STATEMENT	1.	Discon required local lo down a equipm Check f If any supervi further THE US IS PROI When cleaning vacuum in place free clo equipm cannot your su WARNII Steps o the us Persona to the o	nect pow d by this ockout and loc ent and for susp unusual sor prid action of E OF C HIBITED cleaning g metho th or bi ent only be used pervisor NG FOR contained a Protec current E	ver and instruct procedure k out the cicious du substan or to p the equ OMPRES is requ od such or a dan pressed rush may when ot Report immedia EWP/PPE d in this Electrical ctive Equ	SED OR E uired, an as a HE mp rag mu or blown blown be used her cleanin safety def tely upon tely upon tely upon bulletin r Work F ipment (Po for appro	en nt ut en s. s. fy ny R ve ed ed t- al s to re P) er	All					
				WARN	ING							
			pment		rking arou oower ha							
SYSTEM	2.	the ma pneuma	chine ar tic powe	nd lock r sources	i t power. out its el as presci e procedure	nd	9					
CAMERA	3.	Infeed a	and robo	t cameras	6.			6	7			
		Clean in free clot		l robot wir	ndows with	ac	lean lir	nt-				
CONVEYOR	4.	Clean S		storage st	stand phot and photo		8	7				

U.S. Postal S		IDENTIFICATION																
Maintenance (Check	list		DRK DDE			_							LASS ODE	NUMBER			TYPE
			0	3	R	С	S			[Α	В	3 0	0	2	М
Equipment Nomenclature			Equ	ipmer						Τ		tin File			Freque			
Robotic Containeriz	zation	System				RCS	<u>; </u>				N	1M14	124A	D		W	'EEKL	.Y
Part or	Item			Task S						le:			Est.	Min.		Th	resholo	ds
Component										5)		Time Req (min)	Skill Lev	Run Hours		Pieces Fed (000)	Weeks	
CLEAN UP	5.	are rem	an up. Ensure all tools, lubricants, rags removed from the work area. Repo ciencies to supervisor.											All				
		equip	WARNING cautious when working around or on uipment when power has been plied.															
SYSTEM	STEM 6. Restore power. Remove lockouts, restore power, and return machine to operational state as prescribed by the current local lockore instructions providing lockout/restore procedures								tatus kout		9							

MMO-061-15									Mair	nte	enanc	e Te	chr	nical	Sup	port	t Ce	nter
U.S. Postal	Service									ID	ENTIFIC	CATIO	N					
Maintenance	Maintenance Checklist			DRK DE					MENT	Γ				ASS DDE	N	UMB	ER	TYPE
		0	3	R	R C S A B 0 0 2									М				
Equipment Nomenclature Robotic Container	System	Equ	Equipment Model Bulletin Filename Frequency MM14124AD WEEKLY									Y						
Part or Component	(Task Statement and Instruction Est. Min. Thresholds (Comply with all current safety precautions) Time Skill							ls									
Component		Comp	, y 111	vith all current safety precautions)							Weeks							

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RCS MASTER CHECKLIST

03-RCS-AB-003-M

MONTHLY

Time Total: 65 Minutes

U.S. Postal	Service					DENTIFICAT					
Maintenance		list	WORK CODE		PMENT ONYM		CL	LASS ODE	NL	JMBER	TYPE
			0 3 R	C S			Α	В	0	0 3	М
Equipment Nomenclature Robotic Container		Svstem	Equipment Mo	odel RCS II		Bulletin File MM14		D	Freque	ncy MONTHL	Y
	1							1	-		
Part or Component	Item No		Task State (Comply with all)	ement and Instru current safety pr		s)	Est. Time	Min. Skill	D	Threshold	
							Req (min)	Lev	Run Hours	Pieces Fed (000)	Weeks
SAFETY STATEMENT	1.	Disconn required local lo down a equipme Check f If any supervis further a THE US IS PROF When of cleaning vacuum in place free clo equipme cannot l your su WARNIN Steps c the us Persona to the c	Y WITH ALL nect power I by this ins ockout proc and lock of ent and in or suspicion unusual su sor prior t action on the E OF COMPI IIBITED. cleaning is g method s cleaner or e of compres th or brush ent only whe be used. Re pervisor imm NG FOR EWF ontained in e of Elect al Protective urrent EWP	and apply I etruction. Re edures to ut this mainspect dus us dust or un bstance is to proceeding equipment. RESSED OR required, such as a a damp rag sed or blow may be us en other clear eport safety nediately upper P/PPE: this bulleti rical Work Equipment MMO for ap	ockour efer to proper chine. st cor nusua found ing w BLOW an alt HEPA must Wn air. sed on aning r deficie on deto n may Plan (PPE) propria	ts when current rly shut Open nditions. I debris. I, notify ith any /N AIR cernative filtered be used A lint- noptical methods encies to ection. require (EWP) b. Refer	1	All			
			autious when			or on					
SYSTEM	2.	stop pul Verify co emerger 1. Ensu stop cord	all emergen Il cords to ch prect operation by pull cords uring machine is pressed is pulled.	neck for prop on of emerger by: e stops when or the emerg	ps and nergency stop pull	8	7				
		the the	erving emerg emergency s emergency st pull cord is p	top switch ill	uminat	es when					
		3. Obs	erving emerg	gency stop i	ndicato	r on the					

											10-001	10
U.S. Postal Maintenance		liet	WORK		EQU	DENTIFICA	CI	ASS	NL	JMBER	TYPE	
wantenance	CHECK		CODE 0 3	RC				A	ODE B	0	0 3	М
Equipment Nomenclatur Robotic Container		System	Equipmer			1 1	Bulletin File MM14			Freque		
Part or	Item				t and Instru		```	Est.	Min.		Threshold	S
Component	No	((Comply wit	n all curre	ent safety p	precautio	ns)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Weeks
		graph the lo repre displa emer	an Mach nic displa ocation o esented ay when gency st	ay. A re f emerg on HM emerge op pull o	d indicat ency sto I Main ency sto cord is p	tor will p or pu screer p is p ulled.						
		4. Repo										
	3.	Operate Verify cor interlocks	rrect ope				4	7				
		indica Lexar Main door	rving Le IMI Main ator box safety of screen of safety in exan safe	screen will appe door as graphic nterlock	graphic ear at th represe display is opera	displa e locat nted or when t						
		2. Repo	rt any de	ficiencie	es to sup	ervisor						
CONVEYOR	4.	speed se	etting. beed set	Check c ting per	conveyor	drive	r proper rollers for MS-192,	12	9			
SYSTEM	5.	the mac	hine an ic power	d lock source	out its es as pr	elect escribe	wer down rical and ed by the	15	9			
CONVEYOR	6.		^r photo e	ye sens			all main ors with a	8	7			
	7.	Check al belts.	ll main c	onveyo	r syster	12	7					
			erve if an ort any de	-								
CLEAN UP	8.	are remo	Report any deficiencies to supervisor. ean up. Ensure all tools, lubricants, rags, etc. e removed from the work area. Report al ficiencies to supervisor.									
	1	1										L

MMO-061-15									<u>Main</u>	te	na	nce	Tech	าท	ical	Su	рр	or	<u>t C</u> e	en	ter
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Equipment Nomenclature		2	Equ	ipme	nt Mo					В			ename			Free	•				
Robotic Container	ization s	System				RCS	5 II				ľ		4124/	٩D		MUNTHLY				Y	
Part or Component	Item No	(ne))						quency MONTHI Threshold In Pieces Irs Fed				
Component	NO	((min) Hours Fed										Weeks								
1													1	-		1		1			
		Be ca equip applie	men			n wo	lING prkin powe	g aı	ound has		r o)ee							JMBER 0 3 ncy MONTH Thresho Pieces Fed			

RCS MASTER CHECKLIST

03-RCS-AB-004-M

QUARTERLY

Time Total: 75 Minutes

U.S. Postal S	Service					10	DENTIFICA	TION				
Maintenance	Check	list	WORK CODE		EQUIPME ACRONY				ASS ODE	NU	MBER	TYPE
			0 3	R C	S			Α	В	0	0 4	М
Equipment Nomenclature Robotic Containeria		System	Equipme	nt Model RCS	II		Bulletin Fil MM14	ename 1124AI	D	Frequer Ql	^{icy} JARTEF	RLY
Part or	Item				Ind Instruction			Est.	Min.		Threshold	ls
Component	No	(1	Comply wit	h all current	safety preca	ution	s)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Weeks
SAFETY STATEMENT	1.	Disconr required local lo down a equipme Check f If any supervis further a THE US IS PROF When of cleaning vacuum in place free clo equipme cannot your su WARNIN Steps of the us Persona to the c	ect pov by this ockout and loc ent and for susp unusua sor pri- action of E OF C HIBITED cleaning of con the of con the or b ent only be used pervisor NG FOR containe e of l al Protec urrent E	wer and s instruc procedur k out t d inspe icious du I substa or to p n the equ OMPRES J is req od such r or a da upressed rush ma when of . Report immedia EWP/PPI d in this Electrical ctive Equ	SED OR as a HI mp rag m or blown y be used her cleani safety de ately upon	kou er te ope ine. co isua bun BLC BLC al EPA ust ain d o ing ficid def Plar PPE	its wher o curren erly shu o oper nditions al debris d, notify vith any OWN AIF lternative be used to filtered be used to a lint n optica methods encies to tection.		All			
		equij appli	oment ed.	when	orking arou power ha							
SYSTEM CONSOLE	2.	uninterru	uptible p		o wer supp oply by vei t.		1	7				
	3.	system of	console g for airf	cabinet fa	cabinet fans for prop ans for prop airflow by	operatior	ı	9				
CONVEYOR	4.	MCP 1	fans for	proper of	oper operation being for air	by t	esting fo		9			

Maintenance re		i ouppo								101		10
U.S. Postal			WORK		EQ	UIPMENT	IDENTIFICA		ASS	N	UMBER	TYPE
Maintenance	Checkl	ist	CODE		AC	RONYM		C	ODE			
Equipment Nomenclature	e		03 Equipme	R C ent Model	5		Bulletin File	A	В	0 Freque	04 encv	М
Robotic Container		System	- 1	RC	S II			124AI	D		QUARTE	RLY
Part or Component	Item No			Statemen			one)	Est. Time	Min. Skill		Threshold	ls
Component	NO	(*	Comply w		ent salety	precauli	5115)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Weeks
ROBOT	5.	proper of Controlle	operation or fans f	on. Che or prope	ck Rob r opera	ot 1 S40 tion by	r fans for C Robot testing for lovement.	1	9			
CONVEYOR	6.	MCP 2	fans for	r proper	opera	i on . Check testing for ovement.		9				
ROBOT	7.	proper Controlle	operation er fans f	on. Ch for prope	eck Ro er oper	bot 2 ation by	er fans for S4C Robo testing for ovement.	t	9			
PNEUMATIC SYSTEM	8.		ultraso	nic scar			t ic system system to		9			
SYSTEM	9.	the mad	chine ai as pre	nd lock escribed	out it by t	s electi	ower dowr rical power rrent loca	-	9			
SYSTEM CONSOLE	10.						e rs. Clear air filters.	2	7			
CONVEYOR	11.	Clean M MCP 1 a			rs. Cle	ean by	vacuuming	2	7			
ROBOT	12.		by vac	uuming			air filters 4C Robo		7			
CONVEYOR	13.	Clean M MCP 2 a			r s. Cle	ean by	vacuuming	2	7			
ROBOT	14.		by vac	uuming			air filters 4C Robo		7			
ROBOT	15.	operatir lubricato	ng . V ors are o confirm	erify the operatinn the lev	e ΜΕΝ Ig by ι	cators are automatio le indicator as changeo	-	7				
CONVEYOR	16.	bearings guide be	s . Lubri earings a kes (3 g	icate the at all fou gm) of K	right a Ir trans lüber N	ngle tra fer stati licrolub	near guide nsfer linear ons. Apply e GL261 a ings.	-	7			

MMO-061-15

Maintenance Technical Support Center

U.S. Postal S	Service		IDENTIFICATION																
Maintenance	Chock	liet	-	RK									-	ASS		NU	MBE	ĒR	TYPE
Wantenance	CHECK	151		DE	_	~		ACRO	NYM			r				_			
			0	3	R	С	S				_		A	В		0	0	4	М
Equipment Nomenclature			Equ	ipmer							Bulletir				Fr	requen			
Robotic Containeria	zation \$	System				RCS	S				M	M14	124AI	D		Ql	JAF	RTER	LY
-																			
Part or	Item							nstruc					Est.	Min.			Thre	shold	S
Component	No	(0	Comp	comply with all current safety precautions)									Time	Skill		Run	Die	eces	Weeks
													Req (min)	Lev		lours		ed	WCCR3
													(11111)				(0	00)	
																	Ì	,	
	17.	Lubricat	te	the	tra	y t	ub	lift	lin	ea	ar gu	iide	12	7					
		bearing	s . L	ubri	cate	the	tray	/ tub	lift l	lin	iear gi	uide							
		bearings																	
		VG 10 t																	
		fittings.			3							,							
		nungo.																	
CLEAN UP	18.	Clean u	n F	Insu	re a	ll tor	nls I	ubric	ants		rans e	etc	2	All			-		
	10.	are rem	•								Report		_						
								\ ar	5a.	1	vehou	aii							
		deficienc	les	lo su	ipen	/1501	•												
					N	/ARI	NIN	G											
		Be ca	autio	ous	whe	n w	orki	ng a	rour	۱d	or or	1							
		equip	ome	nt	whe	en	pov	ver	has	5	beer	1							
		appli	ed.																
SYSTEM	19.	Restore	pq	wer		Rer	nove	e lo	ckou	Its	, res	tore	3	9					
		power, a											_						
		as pres																	
		instructio																	
		nistructio	nis	1001	ung	100	(out/	iesit	ne h	10	Ceuun	53.							

RCS MASTER CHECKLIST

03-RCS-AB-005-M

ANNUAL

Time Total: 86 Minutes

Maintenance Check	list WORK CODE 0 3				ASS ODE B		MBER	TYPE M
Equipment Nomenclature Robotic Containerization	Equipmen	-		tin Filename MM14124AI	<u> </u>	Frequen		
Part or Item Component No		Statement and Instr h all current safety		Est. Time Req (min)	Min. Skill Lev	Run Hours	Threshold Pieces Fed (000)	s Weeks
SAFETY 1. STATEMENT	COMPLY WITH Disconnect pow required by this local lockout p down and lock equipment and Check for suspi If any unusual supervisor price further action on THE USE OF CO IS PROHIBITED. When cleaning cleaning metho vacuum cleaner in place of com free cloth or br equipment only cannot be used. your supervisor WARNING FOR I Steps contained the use of E Personal Protect to the current E PPE and barrica	ver and apply instruction. procedures to k out this m d inspect d icious dust or substance i or to procee the equipmer OMPRESSED is required, od such as a or a damp ra- pressed or bl rush may be when other cl . Report safet immediately u EWP/PPE: d in this bulle Electrical Wor ctive Equipmer	lockouts of Refer to cu properly achine. Oust unusual de s found, r ding with t. OR BLOWN an altern d HEPA filt g must be own air. A used on op eaning met y deficienci pon detecti tin may re- k Plan (B nt (PPE). I uppropriate	when rrent shut Dpen ions. ebris. hotify any I AIR ative tered used lint- btical hods es to on. quire EWP) Refer	All			
	safeguarded and that the are correctly result in per- the equipmen Be cautious v	sonal injury o	ot ng an to					

IDENTIFICATION

Conduct thermal scan of the power

14

9

SYSTEM

2.

MMO-061-15

U.S. Postal Service

					141141	J-00 I	.0
U.S. Postal S Maintenance		WORK EQUIPMEN CODE ACRONY	-	LASS	NUM	IBER	TYPE
manitorianoe	2.1001(1			B	0 () 5	М
Equipment Nomenclature Robotic Containeri		Equipment Model	Bulletin Filename MM14124A		Frequenc	y NNUAI	
	Zalion		10110114124A	D			
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precau	tions) Est.	Min. Skill		hreshold	
			Req (min)	Lev	Run Hours	Pieces Fed	Weeks
						(000)	
		2. Power down the machine.					
		3. Open the power distribution panel					
		 Restore power and return operational status. 	machine to				
		 Scan the interior of the power panel using a thermal imaging cal 					
		 Look for anomalies indicating resistance connection or other pro- 	0 0				
		7. Close power distribution panel.					
SYSTEM	3.	Power Down And Lockout Power. Power down the machine and lo power as prescribed by the curr ockout instructions providing locko procedures.	ent local	9			
ROBOT	4.	Check Robot 1 axis 1 belts.	10	9			
		1. Check for dirt and grease buildup					
		2. Check for wear or damage.					
		3. Check for proper alignment and tr	acking.				
	5.	Check Robot 1 axis 2 belts.	4	9			
		1. Check for dirt and grease buildup					
		2. Check for wear or damage.					
		3. Check for proper alignment and tr	acking.				
	6.	Check Robot 1 axis 3 belts.	4	9			
		1. Check for dirt and grease buildup					
		2. Check for wear or damage.					
		3. Check for proper alignment and tr	acking.				
	7.	Check Robot 2 axis 1 belts.	10	9			1
		1. Check for dirt and grease buildup					
		2. Check for wear or damage.					
		3. Check for proper alignment and tr	acking.				
	8.	Check Robot 2 axis 2 belts.	4	9			
	1	1. Check for dirt and grease buildup					

MMO-	·061-'	15
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U.S. Postal S	Service			-		IDENTIFICAT					
Maintenance	Check	ist	WORK CODE		EQUIPMENT ACRONYM			_ASS ODE	NUI	MBER	TYPE
			0 3	RCS			A	B	0	0 5	М
Equipment Nomenclature				ent Model		Bulletin File	ename		Frequen	су	
Robotic Containeria	zation \$	System		RCS II		MM14	124A	D	/	ANNUAI	-
Part or	Item		Task	Statement and	Instruction		Est.	Min.	-	Threshold	e e
Component	No	(0		ith all current s		ons)	Time	Skill		Pieces	Weeks
							Req (min)	Lev	Run Hours	Fed	Weeks
							()			(000)	
		2. Che	ck for w	ear or dama	ge.						T
		3. Che	ck for pr	oper alignm	ent and tra	ckina.					
	9.			axis 3 belts		3	4	9			
	0.						-	Ŭ			
				lirt and grea	•						
				vear or dam	0						
		3. Che	eck for p	proper alignr	nent and tra	acking.					
				WARNI	IG						
		Disca		olvent so to local	aked m procedui	aterials res to					
				ntaneous c	•						
		-	-								
ROBOT	10.	Check F level.	Robot 1	, axis 1, ge	arbox for	proper oil	4	7			
		1. Clea	n immeo	diate area a	ound the a	xis 1					
		gear	box oil l	evel plug.							
		2. Loos plug		remove axis	s 1 gearbox	oil level					
			ure the o ning thre	oil is at the le ads.	evel of the p	blug					
				ed with Shel 3-220 lubrica		20 or					
				g and tighte							
				y spilled oil.	,						
	11.		•	, axis 2, ge	arbox for	proper oil	4	7			
		level.		,, , y							
				ediate area evel plug.	around t	he axis 2					
		-	sen and	remove ax	is 2 gearb	ox oil level					
		3. Ensi		oil is at t ads.	he level o	f the plug					
		4. Fill	as nee	ded with S -220 lubrica		S-220 or					
				g and tighte							
		-			i ocourery.						
		6. Clea	in up an	y spilled oil.							

U.S. Postal S	Service			-			DENTIFICAT					
Maintenance	Checkl	ist	WORK CODE			IPMENT RONYM			LASS ODE	NUI	MBER	TYPE
			0 3	R C	S			A	B	0	0 5	М
Equipment Nomenclature			Equipme	ent Model		- ·	Bulletin File			Frequen		
Robotic Containeria	zation S	System		RCS			MM14	124A	D	/	ANNUA	_
Part or	Item		Task	Statement a	nd Instr	uction		Est.	Min.	-	Threshold	s
Component	No	((Comply w	ith all current	safety p	orecautio	ns)	Time	Skill	Run	Pieces	Weeks
								Req (min)	Lev	Hours	Fed	
											(000)	
	12.	Check F level.	Robot 2	l, axis 1,	gearbo	ox for	proper oil	4	7			
				ediate are level plug.	ea arc	ound th	ne axis 1					
		2. Loos	sen and		axis 1	gearbo	ox oil level					
		plug										
			ure the hing thre		the I	evel of	the plug					
				ded with 3-220 lubri		Tivela	S-220 or					
		5. Rep	lace plu	g and tight	ten seo	curely.						
		6. Clea	in up an	y spilled o	il.							
		Disca	ard s rding	WARN olvent to loca	soake] d ma ocedure	aterials es to					
			•	ntaneous	-							
	13.	Check F level.	Robot 2	2, axis 2,	gearbo	ox for	proper oil	4	7			
				ediate are level plug.	ea arc	ound th	ne axis 2					
		2. Loos plug		l remove a	axis 2	gearbo	ox oil level					
			ure the		the I	evel of	the plug					
				ded with 6-220 lubri		Tivela	S-220 or					
		5. Rep	lace plu	g and tight	ten seo	curely.						
		-	-	y spilled o		-						
CLEAN UP	14.	etc., are	remove	sure all to ed from the o supervis	e work			2	All			
				WARN	IING]						
			oment	when wo when								

MMO-061-15

Maintenance Technical Support Center

U.S. Postal S	Service									DENTIF	ICAT	ION						
Maintenance	Check	list		DRK DE					MENT NYM				ASS ODE	NU	JMBE	R	TYPE	
			0	3	R	С	S					Α	В	0	0	5	М	
Equipment Nomenclature Robotic Containeriz		System	Equ	ipmer	nt Mo	_{del} RCS	5		·	Bulleti M		name 124Al	D					
Part or	Part or Item Task Statement and Instruction Est. Min. Thresholds Component No (Comply with all current safety precautions) Time Skill										s							
Component	NO	(Comp	ny wit	n all (currer	it sale	ety pr	ecaulio	ns)		Req (min)	Lev	Run Hours	Piec Fe (00	ed	Weeks	
SYSTEM	15.	Restore power, status a lockout procedu	and as p instr	ret oreso	urn cribe	mao d b	chine y tł	e to ne d	ope curren	rationa t loca	ıl 1	3	9					

RCS MASTER CHECKLIST

03-RCS-AB-006-M

TWO YEAR

Time Total: 321 Minutes

U.S. Postal S Maintenance (list	WORK CODE		EQUIPME	ENT	DENTIFICAT	CL	ASS ODE	MBER	TYPE	
			0 3	RC	S			A	B	0	0 6	М
Equipment Nomenclature		D 1	Equipme				Bulletin File		<u>,</u>	Frequer		
Robotic Containeriz	zation	System		RCS	11		MM14	124AI	J		WO YE	٨R
Part or	Item				nd Instructio			Est.	Min.		Threshold	IS
Component	No	(Comply wi	th all current	safety preca	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Weeks		
SAFETY STATEMENT	1.	Discon required local lo down a equipm Check f If any supervi further THE US IS PROI When cleaning vacuum in place free clo equipm cannot your su WARNII Steps o the us Persona to the c	LY WITH ALL SAFETY PRECAUTIONS. 1 All nnect power and apply lockouts when ed by this instruction. Refer to current lockout procedures to properly shut and lock out this machine. Open nent and inspect dust conditions. for suspicious dust or unusual debris. r unusual substance is found, notify visor prior to proceeding with any r action on the equipment. 1 All USE OF COMPRESSED OR BLOWN AIR DHIBITED. 1 Image: Compression of the equipment. USE OF COMPRESSED OR BLOWN AIR DHIBITED. Cleaning is required, an alternative mg method such as a HEPA filtered m cleaner or a damp rag must be used ce of compressed or blown air. A lint- loth or brush may be used on optical nent only when other cleaning methods t be used. Report safety deficiencies to upervisor immediately upon detection. ING FOR EWP/PPE: contained in this bulletin may require tase of Electrical Work Plan (EWP) nal Protective Equipment (PPE). Refer current EWP MMO for appropriate EWP and barricade requirements. WARNING sure no one is standing in the eguarded space around the robot d that the motion settings for jogging correctly set. Carelessness can ult in personal injury or damage to equipment.									
SYSTEM	2.	safe and are resu the e										
		the ma pneuma	r down and lock out power.Power down159machine and lock out its electrical and matic power sources as prescribed by the at local lockout/restore procedures.159									
		mate	erials ad	ccording	ING f chemic to MSD procedu	S a	nd in					

U.S. Postal S	Service			1			DENTIFICA			1					
Maintenance	Checkl	ist	WORK CODE			UIPMENT RONYM		-	LASS	NU	IMBER	TYPE			
			0 3	R C	S			Α	В	0	0 6	М			
Equipment Nomenclature		D 1	Equipme	nt Model	、		Bulletin Fil		_	Frequer					
Robotic Containeri	zation	System		RCS				4124A	U		WO YE	AR			
Part or	Item		Task	Statement	and Ins	truction		Est.	Min.	Thresholds					
Component	No	((Comply wi	th all currer	nt safety	[,] precautio	ns)	Time	Skill	Run	Pieces	Weeks			
								Req (min)	Lev	Hours	Fed	reone			
								· ,			(000)				
ROBOT	3.	Lubrica	icate Robot 1, axis 3, 75mm belt upper 60 9												
							s 3, 75mn								
							s in Axis :								
							MS-192								
			B, Sec	stion 3.	Use	Shell A	Ibida LC	2							
	4.	grease.	te Robo	t 1 axis	3 he	aring bl	ocks, and	d 60	9						
				tion Uni			Lubricat								
							FLUs pe	r							
							aintenanc								
							n 3. Us								
		grease.	SHC639	oll and	Optin	nai Long	time PD	2							
		-					_								
	5.						elt uppe		9						
							s 3, 75mn s in Axis :								
							MS-192								
							Ibida LC								
		grease.													
	6.	Lubrica	te Robo	ot 2, axis	3, be	aring bl	ocks, and	d 60	9						
		FLUs. 1	Lubricate	e Robot 2	2, axis	3, bear	ng blocks	,							
							ube Poin								
							olume E Id Optima								
		Longtime			01100										
	7.	-	-	IOLUB	01140	matic	lubricato	r 60	9	-					
	7.	Replace					IEMOLUE		9						
							teries pe								
				•			Section 3								
							ISN 4730								
							RCS) and								
				uired for			4730-06	-							
			、 ·			,									
CLEAN UP	8.						rags, etc.		All						
				upervisor		area.	Report a								
				apoi vi301	•							-			
				WAR	NING	٦									
		_					_								
				when w											
		equij appli		when	powe	r nas	peen								
		appi	.												

MMO-061-15

Maintenance Technical Support Center

U.S. Postal S	Service									IDE	NTIF	CAT	ION					
Maintenance	Checkl	ist	WORK EQUIPMENT CODE ACRONYM									LASS NUMBER				TYPE		
			0	3	R C S A B 0 0								6	М				
Equipment Nomenclature Robotic Containeriz	System	Equipment Model Bulletin Filer RCS II MM14									D	Freque) YE	٩R			
Part or	ltem No				Stater								Est. Time	Min. Skill		Thre	eshold	s
Component	NO	((Jomp	ny wit	n an c	unen	it sale	ety pro	ecautio	ons)			Req (min)	Lev	Run Hours	F	eces ⁻ ed)00)	Weeks
SYSTEM	9.	Restore	nc		,	Don	2010		ekou	te	roct	oro	3	9				
	9.	power, a as pres instructio	and scrib	ed	n m by	achi the	ne t cu	o op rrent	loc	ona al	al sta lock	itus out	3	9				

RCS MASTER CHECKLIST

03-RCS-AB-007-M

THREE YEAR

Time Total: 171 Minutes

MMO-061-15					Mair	ntena	ance 7	Fechr	nical	Supp	ort Cer	nter				
U.S. Postal S			WORK		EQUIPMEN		TIFICAT		ASS	NUI	MBER	TYPE				
Maintenance	Check	ist	CODE 0 3	RC	ACRONYM S			CC A	DDE B		0 0 7 equency THREE YEA Thresholds Run Pieces					
Equipment Nomenclature			Equipmer	nt Model			etin Filer	name		Frequen	cy	М				
Robotic Containeri	zation	System		RCS			MM14	124AC)	TH	REE YE	AR				
Part or Component	ltem No	(nd Instruction safety precauti	ons)		Est. Time Req (min)	Min. Skill Lev	Run Hours	Pieces Fed	s Weeks				
SAFETY STATEMENT	1.	Disconr required local lo down a equipm Check f If any supervia further a THE US IS PROI When cleaning vacuum in place free clo equipm cannot your su WARNII Steps of the us Persona	nect power d by this bockout pand lock ent and for susp unusual sor prid action or E OF C HIBITED. cleaning g methor cleaner of com th or ble ent only be used pervisor NG FOR contained e of E al Protect	ver and instruct procedure k out the cicious du substan or to p the equi OMPRES is requi od such or a dan pressed rush may when oth Report immedia EWP/PPE d in this Electrical	SED OR B uired, an as a HEF np rag mu or blown a y be used her cleanin safety defin tely upon d	outs to comperiy le. condiual d und, with LOW A fi st be air. A on o g me cienc letect an (PE).	when urrent shut Open tions. ebris. notify any N AIR native ltered used A lint- ptical thods ies to ion. equire (EWP) Refer	1	All							
SYSTEM	2.	PPE and Power of the ma	d barrica down an chine ar	de requir d lock ound nd lock		Power ctrica	down I and	15	9							
					e procedure											
PNUEMATIC SYSTEM	3.	 Turr Uns Scret Instant 	n filter hol crew filte ew new fi	r and rem ter in plac older. Tur	wise to remo	it.	se to	2	7							
SYSTEM CONSOLE	4.	battery.	Replace		power sup ttery per ins n 5.				9							

		Support								10110	00-001	10
U.S. Postal S	ervice						DENTIFICAT		400			TYPE
Maintenance (Checkl	ist 🤇			EQUIP ACRC			C	ASS		MBER	TYPE
Equipment Nomenclature		-) 3	R C	S		Bulletin File	A	В	0	0 7	М
Robotic Containeriz			quipmer	RCS	S 11		MM14		D	Frequen TH	REE YE	AR
Part or	Item		Task \$	Statement	and Instruc	tion		Est.	Min.		Threshold	S
Component	No	(Cor			nt safety pro		ns)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Weeks
	5.	Replace computer 192, Volum	BIOS	battery	per insti		Replace ns in MS-	12	10			
ROBOT	6.	Replace R 1 S4C ba MS-192, V	tteries	with c	able per				10			
	7.	Replace F lithium ba measurement instructions	attery ent b	pack . oard litl	Replace nium ba	Robo ttery	ot 1 serial pack per		10			
	8.	Replace R 2 S4C ba MS-192, V	tteries	with c	able per				10			
	9.	Replace F lithium ba measurement instructions	attery ent b	pack . oard litl	Replace nium ba	Robo ttery	ot 2 serial pack per		10			
				WAR	NING							
		Discard materials accordanc	acco	ording	to MS	SDS	soaked and in					
	10.	Change R Robot 1, a MMO-026- Use Shell lubricant.	axis 1, 06 or	, gearbo MS-192	ox oil per 2, Volum	່instr ອ B, ສ	ructions in Section 3.		9			
	11.	Change R Robot 1, a MMO-026- Use Shell lubricant.	axis 2, 06 or	, gearbo MS-192	ox oil per 2, Volum	instr ə B, S	ructions in Section 3.		9			
	12.	Change R Robot 2, a MMO-026- Use Shell lubricant.	axis 1, 06 or	, gearbo MS-192	ox oil per 2, Volum	r instr ə B, \$	ructions in Section 3.		9			
	13.	Change R Robot 2, a MMO-026- Use Shell lubricant.	axis 2, 06 or	, gearbo MS-192	ox oil per 2, Volum	r instr ə B, \$	ructions in Section 3.		9			

MMO-061-15 Maintenance Technical Support Center U.S. Postal Service **IDENTIFICATION** EQUIPMENT NUMBER WORK CLASS TYPE **Maintenance Checklist** ACRONYM CODE CODE R C S 7 0 3 В 0 0 Μ А Equipment Model Equipment Nomenclature **Bulletin Filename** Frequency MM14124AD THREE YEAR **Robotic Containerization System** RCS II Part or Item Task Statement and Instruction Est. Min. Thresholds Component (Comply with all current safety precautions) Skill No Time Run Pieces Weeks Req Lev Hours Fed (min) (000) CLEAN UP 14. Clean up. Ensure all tools, lubricants, rags, etc., 2 All are removed from the work area. Report all deficiencies to supervisor. WARNING Be cautious when working around or on equipment when power has been applied. SYSTEM 15. Restore power. Remove lockouts, restore 3 9 power, and return machine to operational status as prescribed by the current local lockout instructions providing lockout/restore procedures.

RCS MASTER CHECKLIST

09-RCS-AB-001-M

OPERATIONAL MAINTENANCE TWO TOURS PER DAY

Time Total: 25 Minutes

ITEM	TASK	MULTIPLIER	TOTAL
	TIME	FACTOR	MINUTES
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	5	1	5
			25

U.S. Postal Ser	IDENTIFICATION										-				
Maintenance Ch	heckl	ist	WORK CODE			EQUIPMEI					.ASS DDE		NU	MBER	TYPE
			0 9	RC						A	B		0	0 1	М
Equipment Nomenclature			Equipmer					Bulleti	n Filer				quen	• •	
Robotic Containeriza	ation 8	System			S II					124A	C		4	TOUR	
	Item					Instruction		-)		Est.	Min.		-	Threshold	s
Component	No	(0	Comply wit	n all curr	ent sai	ety precat	ltion	s)		Time Reg	Skill Lev	R	un	Pieces	Weeks
										(min)		Ho	ours	Fed	
														(000)	
SAFETY	1.	COMPL	Y WITH	ALL S	SAFE	TY PRE	ECA	UTIO	NS.	1	All				
STATEMENT		Disconn													
		required													
		local lo						-							
		down a							pen						
		equipme													
		Check f If any													
		supervis													
		further a						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	any						
					• •										
		THE US			ESSE	DORI	BLC	JVVN	AIR						
		IS PROF When			oquir	ad an	-	torna	tivo						
		cleaning													
		vacuum													
		in place													
		free clo													
		equipme													
		cannot	be used	. Repo	ort sa	fety de	ficio	encie	s to						
		your su	pervisor	imme	diate	y upon	det	ectio	n.						
		WARNIN		EWP/P	PE:										
		Steps c				ulletin ı	may	/ req	uire						
		the us													
		Persona													
		to the c					opri	iate E	WP						
		PPE and	d barrica	ide req	uirer	nents.									
MACHINE LOG	2.	At the b	eginnin	g of th	e tou	r exami	ine	mach	nine	1	9			1	
			Examine												
		unresolv							-						
				N	OTE										
			-41			4 L -									
			ational o												
			nine pro nating mod		g ma	ali in a	a r	orma	I						
		opera	ating mot	le.											
SYSTEM	3.	Every t	wo hou	rs cho	ck fr	r linile		SOUR	ahr	1	9				
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SYSTEM SAFETY	4.	Every t								1	9				
INDICATORS		beacons horns an					0 11	n wari	iing						
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IDENTIFICATION

MMO-061-15

U.S. Postal Service

U.S. Postal S	Service	IDENTIFICATION																		
Maintenance	Chook	liet	-	ORK					MENT				-	ASS		NUI	MBE	२	TYPE	
waintenance	Check	ist		DE	_			ACRO	DNYM				-							
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Equipment Nomenclature		• •	Equ	ipmer							Bulletir			_	Freq	uen				
Robotic Containeria	zation S	System		RCS II MM14							M14	124AL)			ΤO	UR			
Part or	lt a ma			Teelu	Chata		المعنم		die w				Est	Min	Thuseholds					
Component	Item No	((Task Statement and Instruction (Comply with all current safety precautions)						Est. Time	Min. Skill		Thresholds								
Component	110	(oomp	, , , , , , , , , , , , , , , , , , ,	an an c	Janoi	n our	oty pi	oodaala	011	0)		Req	Lev	Ru		Piec		Weeks	
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SYSTEM	5.	Every t	wo	hou	irs	che	ck	lamr	S.	V	Vatch	for	1	9						
INDICATORS	_	proper f																		
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REJECTS	6.	Every tv											1	9						
		for reject																		
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		as practi	cal.																	
ACE COMPUTER	7.	Every tv	vo ł	hour	's ch	neck	MF	PEW	atch.		Chec	k to	2	9						
		ensure F																		
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ADMINISTRATIVE	8.	At the			to	ur	com	pile	the	1	ollow	ing	5	9						
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