MAINTENANCE TECHNICAL SUPPORT CENTER / MAINTENANCE POLICIES & PROGRAMS ENGINEERING / UNITED STATES POSTAL SERVICE

maintenance management order

SUBJECT: PM Guidelines for Siemens Loose Mail System (LMS)

DATE: July 10, 2000

J10

FILE CODE:

NO: MMO-062-00

TO: All Siemens Loose Mail System Sites.

mova:M99066AC

	Online Change Record											
Change #	Change # Date Description of Change											
1	4/26/2022	Attachments 2, 3, 4, and 5 - corrected skill levels 4 and 5, no longer in use, to level 7.										

This Maintenance Management Order (MMO) provides Preventive Maintenance (PM) guidelines for the Siemens Loose Mail System (LMS). The VMARS acronym for this equipment is "LMS" and the class code is "BB".

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

WARNING

Various chemical products may be used while performing tasks outlined in this bulletin. Ensure that current Material Safety Data Sheet (MSDS) for each chemical product is on file and available for all employees.

The preventive maintenance hours outlined in this MMO are based on 16 hours of machine run time each day. There are several configurations of Siemens LMS machines in the field, therefore, local maintenance management is requested to use these PM guidelines as a reference and prepare a site specific PM schedule. Furthermore, local maintenance management may modify and customize the tasks and frequencies to better fit their site needs.

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

Rex M Gallaher Manager Maintenance Technical Support Center Maintenance Policies and Programs

Attachments:	1.	Summary, Workload Estimate for Siemens LMS
	2.	Siemens LMS Master Checklist (Daily)
	3.	Siemens LMS Master Checklist (Weekly)

- 4. Siemens LMS Master Checklist (Semiannual)
- 5. Siemens LMS Master Checklist (Annual)

ATTACHMENT 1

-SUMMARY-

WORKLOAD ESTIMATE

FOR

Siemens Loose Mail System

	SIEMENS LMS USED WITH SIX INDUCTION STATION SPBM												
Service	Routine		Total PM	Nonproduc-	Total Maint.								
Condition	PM	Repair*	and Repair	tive Time**	Per Machine								
(days/wk)	(hrs/yr)	(hrs/yr)	(hrs/yr)	(hrs/yr)	(hrs/yr)								
6 days	602	120	722	72	794								
7 days	678	136	814	81	895								

SUMMARY WORKLOAD ESTIMATE FOR SIEMENS LMS

* Repair maintenance estimates based on 20% of Preventive Maintenance.

** Based on 10% of total preventive maintenance and repair.

NOTE

This PM guideline lists one module of each type in a given LMS. However, it is likely that more than one module of the same type exists on a given LMS. Therefore, if an "*" appears in the time column of a task, that task must be performed on all modules of the same type. Furthermore, the allocated time in the time column reflects the amount of time required to perform a task per module.

The preventive maintenance hours outlined in this Attachment are based on 16 hours of machine run time each day. There are no standard configurations of Siemens LMS machine in the field. Therefore, local maintenance management is requested to use these PM guidelines as a reference and prepare a site specific PM schedule. Local maintenance management may modify and customize the tasks and frequencies to better fit their individual needs.

The cumulative time to perform this PM schedule is based on the number of modules listed in the following chart:

Module Name	Number of modules.
Load Module	1
Pallet Unloader Module	2
All Purpose Unloader Module	1
90-Degree Power Turn.	1
Incline Module	2
Transport Module	2
Diverter Module	6
Buffer Module (three per SPBM induction stations)	18

ATTACHMENT 2

LMSBB MASTER CHECKLIST

03-LMS-BB-001-M

DAILY

DAILY TIME TOTALS:

88 minutes

The cumulative time to perform this PM schedule is based on the number of modules listed in the following chart:

Module Name	Number of modules.
Load Module	1
Pallet Unloader Module	2
All Purpose Unloader Module	1
90-Degree Power Turn.	1
Incline Module	2
Transport Module	2
Diverter Module	6
Buffer Module (three per SPBM induction stations)	18

l	J.S. Postal	Service						IDE	NTIF	ICAT	ION						
l		•	W	ork		Eq	luipm	nent		CI	ass						
Maint	enance	Checklist	Co	de		A	cron	ym		Co	ode	N	lumb	mber Ty			
			0	3	L	Μ	S			В	В	0	0	1	Μ		
Equipment Nomencl	ature		Equ	ipme	nt Mo	odel		Bull	letin F	Filena	ame	Free	quen				
Siemens	SPBM	Feed System		l	LMS	3		M	1990	66A	١C		[Y			
Part or	Item	Tas	sk Sta	ateme	ent ar	nd Ins	struct	ion						Est.	Min.		
Component	No.	(Comply	with a	all cui	rent	safet	y pre	cautio	ons)					Time	Skill		
														Req'd	Level		

COMPLY WITH ALL SAFETY PRECAUTIONS. -SAFETY All 1. 3 Disconnect power and apply lockouts when required STATEMENT min by this instruction. Refer to current local lockout procedures to properly shutdown and lockout this machine. Where air pressure is required for cleaning, use a low air pressure (30 psi or less) air source. Eye protection (goggles or face shield) must be used when utilizing compressed air for cleaning. Ensure all employees are clear of the machine. Report safety deficiencies to your supervisor immediately upon detection.

- LMS 2. **POWER DOWN AND LOCKOUT POWER. -** Power 3 All down the machine and lockout its electrical and/or min pneumatic power source as prescribed by the current local procedure providing lockout/restore procedures for this equipment.
- LOAD3.PERFORM MAIL SEARCH. Perform mail search as27MODULEfollows:min
 - 1. Remove covers and panels as necessary.
 - 2. Search for mailpieces.
 - 3. Return all mail found during mail search to the proper mail path.
 - 4. Check conveyor belt for damage.
 - 5. Replace all covers and panels.
 - 6. Check that all equipment guards are in place.

U.S. Postal Service	IDENTIFICATION											
Maintenance Checklist	Work Equipmer Code Acronym								Number			Туре
	0	S	L	Μ	S		В	В	0	0	1	Μ
Equipment Nomenclature	Equip	pme	nt M	odel		Bulletin F	ilena	ame	Free	quenc	зy	
Siemens SPBM Feed System		l	LMS M990			66/	٩C		DAILY		Y	

Part or	ltem	Task Statement and Instruction	Est.	Min.
Component	No.	(Comply with all current safety precautions)	Time	Skill
			Req'd	Level

PALLET 4. PERFORM MAIL SEARCH Perform mail search as follows: MODULE							
MODULE		1.	Remove covers and panels as necessary.				
		2.	Search for mailpieces.				
		3.	Return all mail found during mail search to the proper mail path.				
		4.	Check unloader for physical damage.				
		5.	Replace all covers and panels.				
		6.	Check that all equipment guards are in place.				
	5.		RFORM MAIL SEARCH Perform mail search as ows:	2* min	7		
	5.				7		
PURPOSE UNLOADER	5.	foll	ows:		7		
PURPOSE UNLOADER	5.	foll 1.	ows: Remove covers and panels as necessary.		7		
PURPOSE UNLOADER	5.	foll 1. 2.	ows: Remove covers and panels as necessary. Search for mailpieces. Return all mail found during mail search to the		7		
PURPOSE UNLOADER	5.	foll 1. 2. 3.	ows: Remove covers and panels as necessary. Search for mailpieces. Return all mail found during mail search to the proper mail path.		7		

L	J.S. Posta	al Service	IDENTIFICATION											
Maint	enance	e Checklist	Work Code		quipn Acron	nent	Class Code	Nu	mber	Туре				
			0 3	LN	S		B B	-	0 1	M				
Equipment Nomencle Siemens		I Feed System		ent Mode LMS			Filename	Frequ	quency DAILY					
Part or Component	Item No.		Task Statem bly with all cu)		Est. Time Req'd	Min. Skill Level				
90 DEGREE POWER TURN	6.	PERFORM MAII	_ SEARC	:H F	erfo	rm ma	iil searc	h as	2* min	7				
MODULE		1. Remove cove	emove covers and panels as necessary.											
		2. Search for m	Search for mailpieces.											
			Return all mail found during mail search to the proper mail path.											
		4. Check conve	yor belt fo	or dam	age.									
		5. Replace all c	overs and	d pane	s.									
		6. Check that a	l equipme	ent gua	rds	are in p	olace.							
INCLINE MODULE	7.	PERFORM MAII	_ SEARC	:H F	erfo	rm ma	iil searc	h as	2* min	7				
		1. Remove cove	ers and pa	anels a	s ne	cessai	ъ.							
		2. Search for m	ailpieces.											
		3. Return all n proper mail p		d durii	ng n	nail se	earch to	the						
		4. Check conve	yor belt fo	or dam	age.									
		5. Replace all c	overs and	d pane	s.									
		6. Check that a	l equipme	ent gua	rds	are in p	olace.							

U.S. Postal Service		IDENTIFICATION											
Maintenance Checklist		ork			quipm		-	ass				_	
	Co	bde		F	crony	/m	C	ode	N	Number		Туре	
	0	3	L	Μ	S		В	В	0	0	1	Μ	
Equipment Nomenclature	Equ	ipme	nt M	odel		Bulletin	Filena	ame	Free	queno	су		
Siemens SPBM Feed System			LM	S		M99	066/	٩C		Frequency DAILY		Y	

Part or	ltem	Task Statement and Instruction	Est.	Min.
Component	No.	(Comply with all current safety precautions)	Time	Skill
			Req'd	Level

TRANSPORT8.**PERFORM MAIL SEARCH. -** Perform mail search as 2* 7MODULEfollows:min

- 1. Remove covers and panels as necessary.
- 2. Search for mailpieces.
- 3. Return all mail found during mail search to the proper mail path.
- 4. Check conveyor belt for damage.
- 5. Replace all covers and panels.
- 6. Check that all equipment guards are in place.

DIVERTER	9.	PERFORM MAIL SEARCH Perform mail search as	2*	7
MODULE		follows:	min	

- 1. Remove covers and panels as necessary.
- 2. Search for mailpieces.
- 3. Return all mail found during mail search to the proper mail path.
- 4. Check conveyor belt for damage.
- 5. Replace all covers and panels.
- 6. Check that all equipment guards are in place.

l	J.S. Postal	Service						IDE	NTIFI	CAT	ION				
Maint	enance	Checklist	WorkEquipmentClassCodeAcronymCode						N	lumb	Туре				
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Equipment Nomencl	ature		Equipment Model Bulletin Filename Freque								queno	су			
Siemens	SPBM	Feed System LMS M99066AC E							D	Y					
Part or	Item		Task Statement and Instruction									Est.	Min.		
Component	No.	(Comply	with a	all cur	rent	safety	/ pred	cautio	ns)					Time	Skill
													- I F	Rea'd	Level

BUFFER MODULES (three per	10.		RFORM MAIL SEARCH Perform mail search as ows:	1* min	7
(three per induction unit)		1.	Remove covers and panels as necessary.		
		2.	Search for mailpieces.		

- 3. Return all mail found during mail search to the proper mail path.
- 4. Check conveyor belt for damage.
- 5. Replace all covers and panels.
- 6. Check that all equipment guards are in place.

WARNING

Be cautious when working around or on equipment when power has been applied.

LMS 11. **RESTORE EQUIPMENT TO SERVICE.** - Restore 2 ALL equipment to service as prescribed by the current local min procedure providing lockout/restore procedures for this equipment.

L	J.S. Postal	Service	IDENTIF	ICAT	ION									
Maintenance Checklist				ork de			uipm crony		-	ename Frequency 6AC DAILY				
			0	3	L	Μ	S		В	В	0	0	1	Μ
Equipment Nomencla			Equipment Model					Bulletin F			Fred	,		
Siemens SPBM Feed System				LMS M99066AC								D	,	
Part or	Item	Tas	sk Sta	atem	ent a	nd Ins	truct	ion					Est.	Min.
Component	No.	(Comply	with a	all cu	urrent	safety	/ pre	cautions)					Time	Skill
												F	Red,q	Level

LMS SYSTEM 12. **PERFORM OPERATIONAL CHECK.** - Perform 20 7 operational check as follows: min

WARNING

Be cautious when working around or on equipment when power has been applied.

- 1. Ensure that there is no mail loaded on the load module and that the system is empty.
- 2. Boot the MMI computer by pressing the computer power on button. The LMS application software will load automatically.
- 3. Ensure all E-stop switches are in the reset position.
- 4. Depress and hold the "480V Master Start Applied" push button until the green "Power On" light illuminates.
- 5. Depress "Auto Cycle Push to Start" push button.
- 6. Ensure that all audible alarms are in working condition.
- 7. While the system is running, walk around and observe the operation of the entire system.
- 8. Check for abnormal noises, vibration, and other abnormal conditions.
- 9. Check each conveyor belt for abnormal tension and tracking problems.
- 10. Depress the "Reset Auto Cycle Push to Stop" push button.

	U.S. Posta	I Service					IDENTIF	ICATION			
Main	tenance	e Checklist	Work Code			uipm rony		Class Code	Nhur	nber	Type
Wall	containes	Oncornist	0 3	L	M	S		B B	_	0 1	Туре М
Equipment Nomencl		Feed System	Equipme		del		Bulletin F M990	ilename	Frequ	-	
Part or Component	ltem No.		ask Stateme with all cu							Est. Time Req'd	Min. Skill Level
PALLET UNLOADER MODULE	13.	PERFORM OPE operational check a1. Cycle the Pal operation.		'S:	_		CK.		rform roper	3* min	7
		 Check for ab abnormal cond Check the hydrogeneous conditional conditions of the second conditio	litions.								
ALL PURPOSE UNLOADER MODULE	14.	PERFORM OPE operational check a 1. Cycle the All		'S:	_				rform e for	3* min	7
		proper operation 2. Check for abread abnormal cond	normal i	noise	es,	vibı	ation a	nd/or	other		
		3. Check the hyd	raulic sy	rstem	n foi	r ph	ysical d	amage) .		
LMS SYSTEM	15.	RESTORE SYSTE Place system to the "Auto Cycle Push to Keyer Buffer Contro	e operati o Start"	ional push	mo	de	by depr	essing	e	1 min	ALL
	16.	CLEAN-UP. - Ensuremoved from the								2 min	ALL

your supervisor.

ATTACHMENT 3

LMSBB MASTER CHECKLIST

03-LMS-BB-002-M

WEEKLY

WEEKLY TIME TOTALS:

151 minutes

The cumulative time to perform this PM schedule is based on the number of modules listed in the following chart:

Module Name	Number of modules.
Load Module	1
Pallet Unloader Module	2
All Purpose Unloader Module	1
90-Degree Power Turn.	1
Incline Module	2
Transport Module	2
Diverter Module	6
Buffer Module (three per SPBM induction stations)	18

l	J.S. Postal	Service						IDENT	FICAT	ION				
Maint		Charleliat		ork			uipm		-	ass				_
Maint	enance	Checklist	Co	ode Acronym Code					Number			Туре		
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Equipment Nomencl	ature		Equ	iipme	nt Mo	bdel		Bulletin	Filena	me	Free	queno	су	
Siemens	s SPBM Feed System LMS M99066AC W									WI	VEEKLY			
Part or	Item	Tas	sk Sta	ateme	ent ar	nd Ins	tructi	on					Est.	Min.
Component	No.	(Comply v	with a	all cur	rents	safety	/ pred	cautions)					Time	Skill
												F	Req'd	Level

deficiencies to your supervisor immediately upon detection.

LMS 2. **POWER DOWN AND LOCKOUT POWER. -** Power 3 All SYSTEM down the machine and lockout its electrical and/or min pneumatic power source as prescribed by the current Local procedure providing lockout/restore procedures for this equipment.

LOAD3.CLEAN BELT, ROLLERS, AND BEARINGS. - Clean57MODULEbelt, rollers, and bearings as follows:min

- 1. Remove covers and panels as necessary.
- 2. Clean belt, rollers, and bearings of all debris.
- 3. Remove strings, wrapping materials, and all foreign objects.
- 4. Replace all covers and panels.

		al Support Center						MMO-	062-00
l	J.S. Posta	I Service	Work	Equipm			1		
Maint	tenance	e Checklist	Code	Acrony		Class Code	Num	ber	Туре
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Equipment Nomencl		Feed System	Equipme I	nt Model _MS		Filename)66AC	Frequer W		Y
Part or Component	ltem No.			ent and Instruct rent safety pree				Est. Time Req'd	Min. Skill Level
PALLET UNLOADER MODULE	4.	 CLEAN BELT, RC belt, rollers, and beat 1. Remove covers 2. Clean belt, rolle 3. Remove strings objects. 4. Replace all covers 	arings a and pai rs, and I s, wrapp	s follows: nels as nec pearings of ning materi	essary. all deb	vris.		4* min	7
ALL PURPOSE UNLOADER MODULE	5.	 CLEAN BELT, RC belt, rollers, and bea 1. Remove covers 2. Clean belt, rolle 3. Remove strings objects. 4. Replace all cove 	arings a and pai rs, and I s, wrapp	s follows: nels as nec pearings of ning materi	essary all deb	vris.		4* min	7
90 DEGREE POWER TURN MODULE	6.	 CLEAN BELT, RC belt, rollers, and bea 1. Remove covers 2. Clean belt, rolle 3. Remove strings objects. 4. Replace all cove 	arings a and pai rs, and I s, wrapp	s follows: nels as nec pearings of ning materi	essary. all deb	vris.		4* min	7

U	.S. Posta	I Service			IDENTI	FICATION			
Maint	enance	e Checklist	Work Code		oment onym	Class Code	Num	ber	Туре
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Equipment Nomencla			Equipme	nt Model	Bulletin	Filename	Freque	ency	
Siemens	SPDIVI	Feed System		LMS	10199	066AC	V	VEEKI	_ Y
Part or	Item			ent and Instru				Est.	Min.
Component	No.	(Comply	with all cui	rent safety p	recautions			Time Req'd	Skill Level
INCLINE MODULE	7.	CLEAN BELT, RO				GS (Clean	5 min	7
		1. Remove covers	and pa	nels as ne	ecessary	<i>ı</i> .			
		2. Clean belt, rolle	rs, and	bearings	of all del	oris.			
		 Remove strings objects. 	s, wrapp	oing mate	rials, ar	nd all fo	reign		
		4. Replace all cove	ers and	panels.					
TRANSPORT MODULE	8.	CLEAN BELT, RC belt, rollers, and be				GS (Clean	4* min	7
		1. Remove covers	and pa	nels as ne	ecessary	<i>'</i> .			
		2. Clean belt, rolle	rs, and I	bearings	of all del	oris.			
		 Remove strings objects. 	s, wrapp	oing mate	rials, ar	nd all fo	reign		
		4. Replace all cove	ers and	panels					
DIVERTER MODULE	9.	CLEAN BELT, RC belt, rollers, and be				GS (Clean	6* min	7
		1. Remove covers	and pa	nels as ne	ecessary	<i>.</i>			
		2. Clean belt, rolle	rs, and I	bearings	of all del	oris.			
		 Remove strings objects. 	s, wrapp	oing mate	rials, ar	nd all fo	reign		
		4. Replace all cove	ers and	panels.					

BUFFER

MODULES

(three per

induction unit)

U.S. Postal Service						IDENTIF	ICATION	TION					
Maintenance Checklist		ork ode			luipm crony		Class Code	1	Number		Туре		
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Equipment Nomenclature	Equ	ipme	nt Mo	odel		Bulletin F	Filename	Fre	quen	су			
Siemens SPBM Feed System		l	_MS	5		M990	66AC		W	EEK	ĹΥ		

Part or	Item	Task Statement and Instruction	Est.	Min.
Component	No.	(Comply with all current safety precautions)	Time	Skill
			Req'd	Level

10. CLEAN BELT, ROLLERS, AND BEARINGS. - Clean 3* 7 belt, rollers, and bearings as follows: min

- 1. Remove covers and panels as necessary.
- 2. Clean belt, rollers, and bearings of all debris.
- 3. Remove strings, wrapping materials, and all foreign objects.
- 4. Replace all covers and panels.

* per module

WARNING

Be cautious when working around or on equipment when power has been applied.

LMS 11. **RESTORE EQUIPMENT TO SERVICE. -** Restore 2 ALL equipment to service as prescribed by the current local min procedure providing lockout/restore procedures for this equipment.

SUPERVISOR 12. CLEAN CRT. - Clean CRT with a lint-free cloth. 1 7 WORK min

EMERGENCY 13. CHECK ALL EMERGENCY STOP SWITCHES. 10 7 STOP min 1. Ensure that there is no mail loaded on the load module and that the system is empty. 10 7

- 2. Boot the MMI computer by pressing the computer power on button. The LMS application software will load automatically.
- 3. Ensure all E-stop switches are in the reset position.
- 4. Depress and hold the "480V Master Start Applied" push button until the green "Power On" light

L	J.S. Postal	Service				IDENTI	FICAT	ION			
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Maint	enance	e Checklist	Code		rony	'n		bde	1 1	umber	Туре
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Equipment Nomencla	ature		Equipme	nt Model		Bulletin	Filena	me	Freq	uency	
Siemens	SPBM	Feed System		LMS		M990)66A	١C		WEEKL	Y
		•									
Part or	Item	Та	ask Stateme	ent and Inst	ructi	on				Est.	Min.
Component	No.	(Comply	/ with all cu	rrent safety	prec	cautions)				Time	Skill
										Req'd	Level
STOP		illuminates.									
SWITCHES											
(Continued)		5. Depress "Auto	Cvcle Pu	ush to St	arť	" push	butto	on.			
(00000000000000000000000000000000000000			- ,								
		6. While the s	ystem	is run	nin	a De	pres	22	one	2	
		emergency-sto									
		stops immedia									
		illuminate and	the alar	m will s	our	nd indi	catir	ng a	an e	-	
		stop condition.									
		7. Check all rem	naining	emerger	ιсу	-stop	swite	che	s by	/	
		depressing one	switch :	at a time	; e	nsure	the F	Red	ligh	t	
		on the Light Tre	e illumir	nates an	d th	ne aları	n so	unc	ls.		
		0									
LMS	14.	RESTORE SYSTE	м то о	PFRATI			DF	_		1	ALL
SYSTEM	17.	Return system to the			-				r	min	
STSTEM		-						•	-	111111	
		"Auto Cycle Push t			ton	locate	a or	the	•		
		Keyer Buffer Contr	or Panel								
	15.	CLEAN-UP Ens	ure all to	ools, lub	rica	ants, ra	ıgs,	etc.	, are	e 2	ALL

 CLEAN-UP. - Ensure all tools, lubricants, rags, etc., are 2 ALL removed from the work area. Report all deficiencies to min your supervisor.

ATTACHMENT 4

LMSBB MASTER CHECKLIST

03-LMS-BB-003-M

SEMIANNUAL

SEMIANNUAL TIME TOTALS:

221 minutes

The cumulative time to perform this PM schedule is based on the number of modules listed in the following chart:

Module Name	Number of modules.
Load Module	1
Pallet Unloader Module	2
All Purpose Unloader Module	1
90-Degree Power Turn.	1
Incline Module	2
Transport Module	2
Diverter Module	6
Buffer Module (three per SPBM induction stations)	18

	J.S. Postal	Service						IDENT	TIFICAT	TION				
Maintenance Checklist		Checklist		ork de			uipm crony		-	Class Code N		Number		Туре
			0	3	L	Μ	S		В	В	0	0	3	Μ
Equipment Nomence Siemens		Feed System	Equ	ipme 	nt Mo LMS				n Filena 9066/			queno EM		IUAL
Part or Component	Item No.	Tas (Comply)	sk Sta with a						;)				Est. Time Rea'd	Min. Skill Level

procedures to properly shutdown and lockout this machine. Where air pressure is required for cleaning, use a low air pressure (30 psi or less) air source. Eye protection (goggles or face shield) must be used when utilizing compressed air for cleaning. Ensure all employees are clear of the machine. Report safety deficiencies to your supervisor immediately upon detection.	3 All min
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- LOAD2.CHECK DRIVE MECHANISM. Check drive mechanism37MODULEas follows:min
 - 1. Remove covers and panels as necessary.
 - 2. Check the drive chain and pulley for binding, stretching, and play. Lube and adjust as necessary.
- PALLET
 3.
 CHECK DRIVE MECHANISM. Check drive mechanism
 3*
 7

 UNLOADER
 as follows:
 min

 MODULE
 1
 1
 1
 - 1. Remove covers and panels as necessary.
 - 2. Check the drive mechanism. Lube and adjust as necessary.

ALL4.CHECK DRIVE MECHANISM. – Check drive mechanism3*7PURPOSEas follows:minUNLOADER1.Remove covers and panels as necessary.

2. Check the drive mechanism. Adjust as necessary.

U.S. Postal Service						IDENI	IFIC/	۱I	ION				
Maintenance Checklist	Wo Co	ork de			uipm cron				ass de	N	lumbe	ər	Туре
	0	3	L	Μ	S		E	3	В	0	0	3	M
Equipment Nomenclature	Equ	ipme	nt Mo	odel		Bulletin	n File	na	me	Free	quenc	у	
Siemens SPBM Feed System			LMS	3		M99	066	ŝА	C	S	ĒΜΙ	ÂNI	NUAL

Component No. (Comply with all current safety precautions) Ti	Est. Time Rea'd	Min. Skill Level
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90 DEGREE 5. CHECK DRIVE MECHANISM. – Check drive mechanism 3* 7 POWER as follows: min TURN 1. Remove covers and panels as necessary. 2. Check tightness and proper location of each curve's guide rollers.

- 3. Check each curve's cam-action drive system is providing proper tensioning to the belt.
- 4. Check the drive chain and pulley for binding, stretching, and play. Lube and adjust as necessary.

INCLINE6.CHECK DRIVE MECHANISM. – Check drive mechanism3*7MODULEas follows:min

- 1. Remove covers and panels as necessary.
- 2. Check the drive chain and pulley for binding, stretching, and play. Lube and adjust as necessary.

TRANSPORT7.CHECK DRIVE MECHANISM. – Check drive mechanism3*7MODULEas follows:min

- 1. Remove covers and panels as necessary.
- 2. Check the drive chain and pulley for binding, stretching, and play. Lube and adjust as necessary.

U	.S. Posta	stal Service IDENTIFICATION Work Equipment Class									
Mainte	enance	e Checklist	Code 0 3		crony		Code B E	Nu	mber 03	Туре М	
Equipment Nomencla Siemens		Feed System	Equipme	nt Model	3	Bulletin F M990		Frequ			
Part or Component	ltem No.		sk Stateme with all cu						Est. Time Req'd	Min. Skill Level	
DIVERTER MODULE	8.	CHECK DRIVE ME as follows:	CHANI	SM. – (Cheo	ck drive	mech	anism	6* min	7	
		1. Remove covers	and pa	nels as	nec	essary.					
		2. Check the driv stretching, and									
		3. Check diverter's stretching, and									
BUFFER MODULES	9.	CHECK DRIVE ME as follows:	CHANI	SM. – (Cheo	ck drive	mech	anism	3* min	7	
(three per SPBM		1. Remove covers	s and pa	anels as	s ne	cessary	' -				
induction unit)		2. Check the di stretching, and						nding,			
	10.	POWER DOWN down the machin pneumatic power s Local procedure pro this equipment.	e and source	lockou as pre	t its scrit	s elect	rical a the c	and/or urrent	3 min	ALL	
LOAD	11.	CHECK GEAR MO		L. –					3	7	
MODULE		1. Check gear mo	otor oil le	evel.					min		
		2. Replace all cov	vers and	l panels	5.						
	12.	CHECK HYDRAUL	IC OIL.	-					1*	7	
UNLOADER MODULE		1. Check hydrauli	c oil lev	el.					min		
		2. Replace all cov	vers and	l panels	5.						
ALL PURPOSE	13.	CHECK HYDRAUL	IC OIL.	-					1 * min	7	
UNLOADER MODULE		1. Check hydrauli	c oil lev	el.					11111		
		2. Replace all cov	vers and	l panels	6.						
						*	norm	odula			

		I Support Center									-062-00
	.S. Postal		Work	Ed	quipm	IDENTIF ent	Clas	1			
Mainte	enance	e Checklist	Code		crony	/m	Cod		1	mber	Туре
Equipment Nomencla	iture		03 Equipmen	L M t Model	S	Bulletin F		B e	0 Frequ	0 3 ency	М
Siemens	SPBM	Feed System		MS		M990				MIÁNN	IUAL
Part or Component	ltem No.		sk Statemer with all curr							Est. Time Req'd	Min. Skill Level
90 DEGREE POWER	14.	CHECK GEAR MO	TOR OIL	–						3 * min	7
TURN MODULE		1. Check gear mo	otor oil lev	/el.							
		2. Replace all cov	ers and	panels	5.						
INCLINE MODULE	15.	CHECK GEAR MO								3 * min	7
		1. Check gear mo									
		2. Replace all cov			5.						
TRANSPORT MODULE	16.	CHECK GEAR MO								3 * min	7
		1. Check gear mo									
		2. Replace all cov	·		5.						
DIVERTER MODULE	17.	CHECK GEAR MO								3 * min	7
		1. Check gear mo	otor oil lev	/el.							
		2. Replace all cov		-	5.						
BUFFER MODULES	18.	CHECK GEAR MO	TOR OIL	–						3 * min	7
(three per SPBM		1. Check gear mo	otor oil lev	/el.							
induction unit)		2. Replace all cov	ers and	panels	5.						
	19.	RESTORE EQUIF equipment to servic procedure providing equipment.	ce as pre	escribe	ed b	y the c	urren	t L	ocal	2 min	ALL
LMS SYSTEM	20.	RESTORE SYSTEI Place system to the "Auto Cycle Push to Keyer Buffer Contro	operation Start" p	nal m	ode	by depr	essir	ng		1 min	ALL
						L.			- II -		

* per module

21. CLEAN-UP. - Ensure all tools, lubricants, rags, etc., are 2 ALL

U.S. Postal Service		IDENTIFICATION												
Maintenance Checklist		Work Equipment Code Acronym						Class				_		
		Co	de	Acronym					Co	bde	N	umb	er	Туре
				L	Μ	S			В	В	0	0	3	Μ
Equipment Nomenclature		Equipment Mod			odel		Bull	etin F	ilena	me	Frequency			
Siemens SPBM Feed System		LMS M99066AC					SEMIÁNNUA							
Part or Item	Task	sk Statement and Instruction										Fst	Min	

Part or	Item	Task Statement and Instruction	Est.	Min.
Component	No.	(Comply with all current safety precautions)	Time	Skill
			Req'd	Level

removed from the work area. Report all deficiencies to min your supervisor.

ATTACHMENT 5

LMSBB MASTER CHECKLIST

03-LMS-BB-005-M

ANNUAL

ANNUAL TIME TOTALS:

336 minutes

The cumulative time to perform this PM schedule is based on the number of modules listed in the following chart:

Module Name	Number of modules.
Load Module	1
Pallet Unloader Module	2
All Purpose Unloader Module	1
90-Degree Power Turn.	1
Incline Module	2
Transport Module	2
Diverter Module	6
Buffer Module (three per SPBM induction stations)	18

	J.S. Posta	I Service				IDENTI	FICAT	ION			
Maint		Charliet	Work		quipm		-	ass			_
waint	enance	e Checklist	Code 0 3		Acrony	/m	-	ode		mber 05	Туре М
	oturo			L M	S	Bulletin	B	B	-		IVI
Equipment Nomencla Siemens		Feed System	Equipmer			M99				iency ANNUA	41
			-								
Part or	Item		sk Stateme							Est.	Min.
Component	No.	(Comply	with all cur	rent safe	ty pre	cautions)				Time Reg'd	Skill Level
STATEMENT		Disconnect power by this instructio procedures to pro- machine. Where a use a low air press	on. Refe operly s ir press	er to shutdo sure is	curr own req	ent lo and	cal ock	loc out	kout this		
		protection (goggl when utilizing con all employees are deficiencies to y detection.	es or f mpress clear of	iace s ed air f the n	hiel for nach	ss) air d) mu clean nine. R	sou st k ing. epo	rce. De u En rtsa	Eye used sure afety		
LMS SYSTEM	2.	when utilizing co all employees are deficiencies to y	es or f mpress clear of our sup AND LC e and source a	iace s ed air f the n pervis OCKO lockou as pre	hiel for nach or i UT tt it: scril	ss) air d) mu clean ine. R mmed POWE s elec bed by	sou st k ing. epo iate iate	rce. De ι En rtsa ly ι - Ρ lan ε cu	Eye used sure afety ipon ower nd/or rrent	3 min	All

- 1. Remove covers and panels as necessary.
- 2. Drain and replace gear motor oil.
- 3. Grease each bearing block assembly as necessary.

DO NOT OVER GREASE THE BEARING ASSEMBLIES, PREMATURE FAILURE MAY OCCUR.

4. Replace all covers and panels.

		al Support Center						MMO-	062-00					
U	.S. Posta	I Service	IDENTIFICATION Work Equipment Class											
Mainte	enance	e Checklist	Work Code	Equipment Cl Acronym Co			Num	ber	Туре					
_			03 Equipmen	LMS	Bulletin F	BB	0 0	-	М					
Equipment Nomencla Siemens		Feed System		Frequency ANNUAL										
Clothono				.MS	meee	66AC								
Part or Component	Item No.		Est. Time	Min. Skill										
Component	INO.	(Comply with all current safety precautions)						Req'd	Level					
PALLET	4.	Lubrication Sched		5*	7									
UNLOADER MODULE		1. Remove covers		min										
		2. Grease each be	ary.											
		DO NOT OVER GREASE THE BEARING ASSEMBLIES, PREMATURE FAILURE MAY OCCUR.												
		3. Replace the Hydraulic oil filter.												
		4. Replace all cov												
ALL	5.	Lubrication Sched		5* min	7									
PURPOSE	01	1. Remove covers			·									
MODULE		2. Grease each be	ry.											
		DO NOT OVER GREASE THE BEARING ASSEMBLIES, PREMATURE FAILURE MAY OCCUR.												
		3. Replace the Hyd												
		4. Replace all cove												
90 DEGREE POWER TURN MODULE	6.	Lubrication Sched						15* min	7					
		1. Remove covers												
		2. Drain and replac												
		3. Grease each be	ry.											
		DO NOT OVER GREASE THE BEARING ASSEMBLIES, PREMATURE FAILURE MAY OCCUR.												
		4. Replace all cove	ers and p	oanels.										

U.	U.S. Postal Service IDENTIFICATION													
Mainte	enance	e Checklist	Work Equipment Class Code Acronym Code			Nur	Number							
			0 3	LMS		BB	0	0 5	M					
Equipment Nomencla Siemens	Feed System	Equipmer [nt Model LMS	Bulletin F M990	⁻ ilename 66AC		quency ANNUAL							
Part or Component	Item No.			ent and Instruc rent safety pre		Est. Time Req'd	Min. Skill Level							
INCLINE MODULE	7.	Lubrication Sched		10* min	7									
		1. Remove covers												
		2. Drain and replace												
		3. Grease each be												
		DO NOT OVER GR PREMATURE FAIL	IES,											
		4. Replace all cove	ers and	panels.										
TRANSPORT MODULE	8.	Lubrication Sched			7									
WODULL		1. Remove covers												
		2. Drain and replace												
		3. Grease each be	ry.											
		DO NOT OVER GR PREMATURE FAIL	IES,											
		4. Replace all cove	ers and	panels.										
DIVERTER	9.	Lubrication Sched		10*	7									
MODULE		1. Remove covers		min										
		2. Drain and replace												
		3. Grease each be	aring bl	ock assem	ibly as n	iecessa	ry.							
		DO NOT OVER GR PREMATURE FAIL				SEMBL	IES,	ES,						
		4. Replace all cove	ers and	panels.										

10.

U.S. Postal Service		IDENTIFICATION											
Maintan an a Okaaldiat	Wo		Equipment				Class						
Maintenance Checklist	Code Ac		crony	ronym		Code		Number		Туре			
	0	3	L	Μ	S			В	В	0	0	5	Μ
Equipment Nomenclature		Equipment Model Bulletin Filename Frequency					су						
Siemens SPBM Feed System		LMS				M99066AC			ANNU			AL	

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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BUFFER
MODULES
(three per
SPBM
induction unit)

Lubrication Schedule. -

10* 7 min

- 1. Remove covers and panels as necessary.
- 2. Drain and replace gear motor oil.
 - 3. Grease each bearing block assembly as necessary.

DO NOT OVER GREASE THE BEARING ASSEMBLIES, PREMATURE FAILURE MAY OCCUR.

4. Replace all covers and panels.

WARNING

Be cautious when working around or on equipment when power has been applied.

- LMS 11. **RESTORE EQUIPMENT TO SERVICE. -** Restore 2 ALL equipment to service as prescribed by the current local min procedure providing lockout/restore procedures for this equipment.
- LMS
 12.
 RESTORE SYSTEM TO OPERATIONAL MODE. –
 1
 ALL

 SYSTEM
 Place system to the operational mode by depressing
 min
 min

 "Auto Cycle Push to Start" push button located on the Keyer Buffer Control Panel.
 Keyer Buffer Control Panel.
 Keyer Buffer Control Panel.
 - 13. **CLEAN-UP.** Ensure all tools, lubricants, rags, etc., are 2 ALL removed from the work area. Report all deficiencies to min your supervisor.