MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATION UNITED STATES POSTAL SERVICE



SUBJECT: PM Guidelines for Crisplant High Speed Induction Units on the Singulator Scan Induction Unit (SSIU) **DATE:** July 7, 2004

NO: MMO-057-04

FILE CODE:

TO: Bulk Mail Centers

ODE: Y Dfau:MM02056AD

	Online Change Record											
Change #	Date	Description of Change										
3	05/02/2022	Attachments 2-4, corrected skill level 4, no longer in use, to level 7.										
2	03/05/2021	In Attachment 3, Item No 4 added a new Step 4.										
1	03/12/2014	Safety Warning added for working around moving conveyors.										

This Maintenance Management Order (MMO) provides Preventive Maintenance (PM) guidelines for the Crisplant High Speed Induction Unit on the SSIU equipment.

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

WARNING

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

WARNING

The use of compressed or blown air is prohibited. 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 only on optical equipment when other cleaning methods can not be used.

The attached master checklist provides tasks to be performed at periodic intervals, the time required per task, and the minimum skill level for each task.

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

WARNING

Moving conveyors may expose employees to personal safety hazards. Do not climb, sit, or walk on conveyors without first performing local Energy Control Procedure (ECP).

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

Robert Tschantz Manager (A) Maintenance Technical Support Center HQ Maintenance Operations

Attachments: 1. Summary of Workload Estimate

- 2. Crisplant High Speed Induction Unit (SSIU) Master Checklist (Monthly)
- 3. Crisplant High Speed Induction Unit (SSIU) Master Checklist (Quarterly)
- 4. Crisplant High Speed Induction Unit (SSIU) Master Checklist (Semi-annual)

SUMMARY

WORKLOAD ESTIMATE FOR

CRISPLANT HIGH SPEED INDUCTION UNIT

Routine Servicing (hrs/yr)	Repair* (hrs/yr)	Total Servicing & Repair Time (hrs/yr)	Nonproductive Time ** (hrs/yr)	Total Servicing Per Machine (hrs/yr)
25.5	7.7	33.2	3.3	36.5
* Popair o	etimatos baso	d on 30% of convicing		

* Repair estimates based on 30% of servicing.

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

TIME TOTALS

Monthly Time Total:	1.9 Hrs. ***
Quarterly Time Total:	0.4 Hrs. ***
Semi-Annual Time Total:	0.5 Hrs. ***

NOTE

The time shown does not allow for multiple assemblies on any equipment. Should multiple assemblies exist, the time must be modified at the local level to account for those occurrences. Other unique site conditions that require additional time are to be addressed at the local level.

*** These times are provided for data entry for the VMARS System.

THIS PAGE BLANK

CRISPLANT HIGH SPEED INDUCTION UNIT MASTER CHECKLIST

03-SSIU-HA-001-M

MONTHLY

MONTHLY TIME TOTALS: 114.5 MINUTES

U.S. Postal Service	IDENTIFICATION												
Maintenance Checklist	Work Equipmen Code Acronym									Number			Туре
	0	3	S	S	Ι	U		Η	Α	0	0	1	M
Equipment Nomenclature CRISPLANT HIGH SPEED INDUCTION UNIT		iipme S	nt Mo SSI			-		⁻ ilena 2056	ame SAD	Fre	quer MC		HLY

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

SAFETY 1. COMPLY WITH ALL SAFETY PRECAUTIONS. 3 All Disconnect power and apply lockouts when required STATEMENT min by this instruction. Refer to current local lockout procedures to properly shutdown and lockout this Open equipment and inspect dust machine. 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.

THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.

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 can not be used. Report safety deficiencies to your supervisor immediately upon detection.

WARNING

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

SYSTEM 2. CHECK FOR MAIL. - Look for stray mail while 2.5 7 performing all activities.

CONVEYOR BELTS 3.

CHECK CONVEYOR BELTS. -

- 1. Jog individual high-speed belts using remote tether.
- 2. Listen for bearing noise from operation of belts and associated VFD/motor.
- 3. Check belts for frayed edges or other visible wear and/or damage.
- 4. Check for proper tracking and belt tensioning (slippage).
- 5. Stop high-speed belts and check for proper clearance on transfer plate gap.
- 6. Adjust as needed.

40

min

7

L L	J.S. Postal	Service				IDENT	IFICA	TION				
Maint	enance	Checklist	Work Equipment Class Code Acronym Code Nu 0 3 S S I U H A 0									
Maria	chanoe	Oncokiist	0 3	0	0 1	Type M						
Equipment Nomencla CRISPLANT		PEED INDUCTION	Equipme	Fre	quency MONT	1						
Part or Component	Item No.		sk Stateme with all cur							Est. Time Req'd	Min. Skill Level	
SYSTEM (Cont.)	4.	POWER DOWN down the equipme prescribed by the developed in acco Management Orde procedures.	nt and proced rdance	lockou lures o with th	t its conta ne c	electri ained urrent	cal p in, c Maii	oower or loc ntena	as ally nce	3 min	All	
			WA	RNING	3							
		Discard s according to spontaneous		proce			ateri prevo					
	5.	CLEAN UNIT Cle	ean HSI	U as fo	llow	S:				60 min	7	
		1. Open all access	s panels	•								
		 Clean entire in vacuum and rac 		ind ex	terio	r of th	ne u	nit us	sing			
		3. Clean photocell	ls with s	oft lint-	free	cloth.						
		4. Check alignmer	nt of Alig	Inment	LEC) .						
		5. Re-install all co	vers and	d acces	ss pa	anels.						
		6. Close all access	s panels	6.								
			WA	RNING	3							
		Be cautious equipment w										
SYSTEM	6.	RESTORE EQUID equipment to serv contained in, or loc current Maintena providing lockout/re	ice as ally dev nce N	prescri eloped lanage	bed in a emer	by the ccorda	e pro		ires the	3 min	All	

U.S. Postal Service	IDENTIFICATION													
Maintenance Checklist		Work Equipment Code Acronym								Number			Туре	
	0	3	S	S	Ι	U		Η	Α	0	0	1	Μ	
Equipment Nomenclature	Equ	quipment Model				Bulletin Filename				Frequency				
		S	SSIL	J		М	M02	056	AD		MO	NT	HLY	
UNIT														

	atement and Instruction Est. all current safety precautions) Time Req'd	Min. Skill Level
--	---	------------------------

CLEAN-UP

7.

CLEAN-UP. - Ensure all tools, lubricants, rags, etc. are 3 All removed from the work area.

Report all deficiencies to your supervisor in order to initiate any necessary work orders to make necessary repairs, or to remove excessive debris.

CRISPLANT HIGH SPEED INDUCTION UNIT MASTER CHECKLIST

03-SSIU-HA-002-M

QUARTERLY

QUARTERLY TIME TOTALS: 24.5 MINUTES

MMO-057-04			Maintenance Technical Support Center											
L I	.S. Posta	al Service												
-			IDENTIFICATION Work Equipment Class Code Acronym Code N									-		
Maint	enanco	e Checklist	Code 0 3	S	Aci S	rony	m U	-	Coo H	de A	-	mber 0 2	Туре М	
Equipment Nomencla CRISPLANT H		SPEED INDUCTION	Equipme		del	1	Bulletin MM0	n File	enan	ne	Frequ	JARTE		
Part or Component	Item No.		Task Statement and Instruction (Comply with all current safety precautions)										Min. Skill Level	
SAFETY STATEMENT	1.	by this instruction procedures to pro- machine. Open conditions. Check debris. If any un supervisor prior action on the equip <u>THE USE OF COM</u> <u>PROHIBITED.</u> When cleaning is method such as a damp rag must be blown air. A lint-fr optical equipment	er and apply lockouts when required on. Refer to current local lockout roperly shutdown and lockout this en equipment and inspect dust eck for suspicious dust or unusual unusual substance is found notify to proceeding with any further									3 min	All	
	2.	CHECK FOR MA performing all activit		Loo	k fo	or	stray	m	nail	W	hile	2.5 min	All	
SYSTEM	3.	POWER DOWN A down the equipmer prescribed by the developed in accor Management Orde procedures.	nt and I proced dance	ocko ures with	out it cor the	ts e ntai cu	electric ned in rrent	cal n, Ma	po or linte	wer loc ena	as ally nce	3 min	All	
VFD	4.	 CHECK VARIABLE 1. Remove covers 2. Look for damage 3. Check cogged and wear (1/4" - 4. Replace all cover 	as need e to VFI timing d 1/2" de	ded. D. drive flect	e bel ion a	lts	for pr	оре		ens	sion	10 min per VFD	7	

U.S. Postal Service	IDENTIFICATION													
Maintenance Checklist	Work Equip Code Acror						-	lass Code	Number			Туре		
	0	3	S	S	Ι	U		Η	Α	0	0	2	Μ	
Equipment Nomenclature CRISPLANT HIGH SPEED INDUCTION UNIT	Equipme		ent Model SSIU		Bulletin F		Filename 2056AD		Frequency QUART			ERLY		

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

WARNING

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

SYSTEM	5.	RESTORE EQUIPMENT TO SERVICE. – Restore equipment to service as prescribed by the procedures contained in, or locally developed in accordance with, the current Maintenance Management Order (MMO) providing lockout/restore procedures.	3 min	All
	6.	CLEAN-UP. – Ensure all tools, lubricants, rags, etc. are removed from the work area.	3 min	All

Report all deficiencies to your supervisor in order to initiate any necessary work orders to make necessary repairs, or to remove excessive debris.

U.S. Postal Service	IDENTIFICATION												
Maintenance Checklist	Work Code		Equipment Acronym				Class Code		Number		Туре		
	0	3	S	S	I	U		Η	Α	0	0	2	Μ
Equipment Nomenclature CRISPLANT HIGH SPEED INDUCTION UNIT	Equ	•	nt Mc				etin F M02				quen QUA		ERLY

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

THIS PAGE BLANK

CRISPLANT HIGH SPEED INDUCTION UNIT MASTER CHECKLIST

03-SSIU-HA-003-M

SEMI-ANNUAL

SEMI-ANNUAL TIME TOTALS: 29.5 MINUTES

MMO-057-04	MO-057-04 Maintenance Technical Su									Su	pport	Center
L	J.S. Posta	al Service					ITIFIC		l			
Maint	enance	e Checklist	Work Code	Work Equipment Class Code Acronym Code Nu								Туре
			0 3	SS	I	U	ŀ			-		M
Equipment Nomencla CRISPLANT		PEED INDUCTION	N SSIU Bulletin Filename Frequency MM02056AD SEMI-ANN									NUAL
Part or Component	Item No.		sk Statem with all cu		Est. Time Req'd	Min. Skill Level						
SAFETY STATEMENT	1.		and ap n. Ref operly equi k for s nusual to pre	oply loc fer to shutdo pment suspici substa	ckou curr wn an ous ance	ent l and id ir dust e is	hen loca locl nspe t or four	requ l loc kout ect unu nd n	kou this dus sua otify	t S t I	3 min	All
		THE USE OF COMPRESSED OR BLOWN AIR IS <u>PROHIBITED.</u> 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 can not be used. Report safety deficiencies to your supervisor immediately upon detection.										
	2.	CHECK FOR MA performing all activit		Look	for	stray	y m	nail	while		2.5 min	All
MAIN CONTROL	3.	CHECK HSIU PF STATUS	ROCES	SOR /	(5 mn	7					
CABINET		Through PROWORX on the SPC, launch the NetScan Utility and check processor adapter battery status(s).										
		If low Bat condition exists, replace the two "AAA" batteries in the appropriate Processor Adapter.										
SYSTEM	4.	POWER DOWN A down the equipmer prescribed by the developed in accor Management Orde procedures.	nt and proced dance	lockout ures co with the	its (onta e cu	electri ined ırrent	ical in, Ma	powe or lo inten	er as ocally ance	s y Ə	3 min	All
	5.	CHECK CABLE Will cables and component		- Chec	k fo	r darr	nage	e to v	virinę	-	10 min	All

U.S. Postal Service	IDENTIFICATION												
Maintenance Checklist	Work Equipme Code Acrony						Number			Туре			
	0	3	S	S	Ι	U		Η	Α	0	0	3	Μ
Equipment Nomenclature CRISPLANT HIGH SPEED INDUCTION UNIT	Equ	iipme S	nt Mo SSII			-	etin F MO2		ime 6AD		quer E MI		INUAL

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

WARNING

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

6. **RESTORE EQUIPMENT TO SERVICE**. - Restore 3 All equipment to service as prescribed by the procedures min contained in, or locally developed in accordance with, the current Maintenance Management Order (MMO) providing lockout/restore procedures.

7. **CLEAN-UP.** - Ensure all tools, lubricants, rags, etc. are 3 All removed from the work area.

Report all deficiencies to your supervisor in order to initiate any necessary work orders to make necessary repairs, or to remove excessive debris.