



Maintenance Management Order

SUBJECT: Preventive Maintenance Guidelines for Flats Secure Destruction (SHRED_CA) **DATE:** February 27, 2018
TO: Maintenance Manager SHRED_CA Offices **NO:** MMO-002-18
FILE CODE: 3SH
ddun:mm17142ae

This Maintenance Management Order (MMO) provides Preventive Maintenance (PM) Guidelines for the Flats Secure Destruction. This bulletin applies to Acronym SHRED, Class Code CA.

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. For a more efficient maintenance operation, routes with duplicate items should be performed together.

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.

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, which require 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 for reference by all employees. 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.

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.

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



Frederick L. Jackson III
Manager (A)
Maintenance Technical Support Center
HQ Maintenance Operations

Attachments:

1. Workload Summary Estimate For SHRED_CA
2. SHRED: 03-SHRED-CA-001-M: Daily
3. SHRED: 03-SHRED-CA-002-M: Weekly
4. SHRED: 03-SHRED-CA-003-M: Semi-Annual

ATTACHMENT 1

SUMMARY

WORKLOAD ESTIMATE

FOR

SHRED_CA

Summary Workload Estimate

Operation Days	Routine Servicing per Machine (Hrs/Yr)	Repair Time per Machine (Hrs/Yr) *	Routine Servicing + Repair Time (Hrs/Yr)	Non-Productive Time per Machine (Hrs/Yr) **	Total Servicing per Machine (Hrs/Yr)
5 Days	136.07	40.82	176.89	17.69	194.58
6 Days	158.60	47.58	206.18	20.62	226.80
7 Days	181.13	54.34	235.47	23.55	259.02

*Repair estimates based on 30% of servicing.

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

ATTACHMENT 2

SHRED MASTER CHECKLIST

03-SHRED-CA-001-M

DAILY

Time Total: 26 Minutes

U.S. Postal Service Maintenance Checklist	IDENTIFICATION											
	WORK CODE		EQUIPMENT ACRONYM				CLASS CODE		NUMBER		TYPE	
	0	3	S	H	R	E	D	C	A	0	0	1
Equipment Nomenclature	Equipment Model SHRED				Bulletin Filename mm17142			Threshold Severity DAILY				

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 (90-180k)	Weeks

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. 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.</p> <p>WARNING FOR EWP/PPE: 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.</p> <p>WARNING: Never use bare hands or fingers to check for hydraulic leaks. Wear skin and eye protection when inspecting pressurized hoses and other components or when handling hydraulic fluids.</p>	3	ALL			
MACHINE	2.	<p>Power Down and Lockout Procedure. Power down the machine and lock out power as prescribed by the current local lockout instructions providing lockout/restore procedures.</p>	3	7			
MACHINE CABINET	3.	<p>Clean Inside Machine Cabinet.</p> <ol style="list-style-type: none"> 1. Open shredder front door. 2. Lift up, pull out, and empty the discharge conveyor pan. 3. Clean/vacuum inside surfaces of shredder around and under discharge conveyor belt. 4. Open discharge conveyor door, and wipe 	5	7			

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Equipment Nomenclature		Equipment Model SHRED					Bulletin Filename mm17142			Threshold Severity DAILY				

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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		down area on and around conveyor photoeye. 5. Slide discharge conveyor pan completely back in, making sure pan is locked securely in place. 6. Close the front door.					
FEEDER MODULE LOADING TABLE	4.	Clean Feeder Module Loading Table. Clean/vacuum outside surfaces of loading table and clean/vacuum area around the transport belt.	2	7			
OIL MODULE	5.	Check/Refill Low Oil. 1. Locate automatic oiler container on the right side of shredder. 2. Make sure oil level in the container is between the MIN and MAX level markings. 3. If container is low, remove cap and replenish oil to MAX fluid level. <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;">WARNING</div> Various products, which require 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 for reference by all employees. Refer to SDS for appropriate personal protective equipment. 4. Replace fill cap. 5. Clean up any spilled or splattered fluid. 6. Return equipment to service as prescribed by the current local lockout instructions providing lockout/restore procedures.	3	7			
CLEAN UP	6.	Clean up. Ensure all tools, lubricants, rags, etc., are removed from the work area.	5	7			
MACHINE LOGBOOK	7.	Log Problems Discovered and Work Performed. Report unresolved problems at the end of tour to the SMO and generate appropriate work orders.	5	9			

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ATTACHMENT 3

SHRED MASTER CHECKLIST

03-SHRED-CA-002-M

WEEKLY

Time Total: 26 Minutes

U.S. Postal Service Maintenance Checklist	IDENTIFICATION													
	WORK CODE		EQUIPMENT ACRONYM						CLASS CODE		NUMBER			TYPE
	0	3	S	H	R	E	D			C	A	0	0	2
Equipment Nomenclature		Equipment Model SHRED					Bulletin Filename mm17142				Threshold Severity WEEKLY			

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 (90-180k)	Weeks

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 can not be used. Report safety deficiencies to your supervisor immediately upon detection.</p> <p>WARNING FOR EWP/PPE: 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.</p> <p>WARNING: Never use bare hands or fingers to check for hydraulic leaks. Wear skin and eye protection when inspecting pressurized hoses and other components or when handling hydraulic fluids.</p>	3	ALL			
		<p style="text-align: center;">WARNING</p> <p>Be cautious when working around or on equipment when power has been applied.</p>					
FEED BELT	2.	<p>Check Feed Belt.</p> <ol style="list-style-type: none"> Turn the main switch to I position; the green Ready for Operation LED should light up. Ensure there are no errors on the Operating and Display dial; errors should be corrected 	2	9			

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Equipment Nomenclature		Equipment Model SHRED					Bulletin Filename mm17142			Threshold Severity WEEKLY				

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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		before proceeding. 3. Press the Start button. 4. Does the feed belt stay firmly in place (i.e. does not slip) when loaded with material? 5. Does the surface of the feed belt appear sturdy and unworn? 6. Is the fabric inlay of the belt covered?					
LOADING TRAY	3.	Check Loading Tray. Is loading table installed and bolted securely?	1	9			
SAFETY DEVICES	4.	Inspect Safety Devices to Assure Proper Machine Operation. 1. Turn main switch to I position; the green Ready for Operation LED should light up. 2. Ensure there are no errors on the Operating and Display dial; errors should be corrected before proceeding. 3. Press the Start button. 4. Observe that the audible warning signal sounds for five (5) seconds. 5. Observe that the visible start-up warning signal light, flashes for between five (5) and ten (10) seconds. 6. Observe that the feed belt, cutting block, and conveyor start up. 7. Press the Emergency Stop button. 8. Observe that the shredder switches off immediately and that the cutting block and feed belt stop. 9. Observe that the Emergency Stop button lights up. 10. Attempt to restart the shredder by pressing the Start button. 11. Observe that the shredder does not start up. 12. Pull out the Emergency Stop button. 13. Press the Start button and observe that the shredder operates normally. 14. Observe that the audible warning signal	10	9			

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		<p>sounds for five (5) seconds.</p> <p>15. Observe that the visible start-up warning signal light, flashes for between five (5) and ten (10) seconds.</p> <p>16. Observe that the feed belt, cutting block, and conveyor start up.</p> <p>17. Press the Emergency Stop bar.</p> <p>18. Observe that the shredder switches off immediately and that the cutting block and feed belt stop.</p> <p>19. Observe that the Emergency Stop button lights up.</p> <p>20. Attempt to restart the shredder by pressing the Start button.</p> <p>21. Observe that the shredder does not start up.</p> <p>22. Pull out the Emergency Stop bar.</p> <p>23. Press the Start button and observe that the shredder operates normally.</p> <p>24. Open the front shredder door more than four (4) inches.</p> <p>25. Observe that the shredder switches off immediately.</p> <p>26. Observe that the Door Open indicator lights up.</p> <p>27. Close and secure the front door.</p> <p>28. Observe that the Door Open indicator lights turn off.</p> <p>29. Press the Start button, and observe that the shredder operates normally.</p>					
CLEAN UP	5.	<p>Clean Up.</p> <p>Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to supervisor.</p>	5	7			
MACHINE LOGBOOK	6.	<p>Log Problems Discovered and Work Performed.</p> <p>Report unresolved problems at the end of tour to the SMO and generate appropriate work orders.</p>	5	9			

ATTACHMENT 4

SHRED MASTER CHECKLIST

03-SHRED-CA-003-M

Semi-Annual

Time Total: 26 Minutes

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	0	3	S	H	R	E	D			C	A	0	0	3
Equipment Nomenclature		Equipment Model SHRED					Bulletin Filename mm17142			Frequency Semi-Annual				

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)	Weeks

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. 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.</p> <p>WARNING FOR EWP/PPE: 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.</p> <p>WARNING: Never use bare hands or fingers to check for hydraulic leaks. Wear skin and eye protection when inspecting pressurized hoses and other components or when handling hydraulic fluids.</p>	3	ALL			
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">WARNING</div> Be cautious when working around or on equipment when power has been applied.					
Machine	2.	<p>Power Down and Lockout Procedure.</p> <p>Power down the machine and lock out power as prescribed by the current local lockout instructions providing lockout/restore procedures.</p>	3	7			

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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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DRIVE CHAIN	3.	<p>Check Drive Chain.</p> <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 10px 0;">WARNING</div> <p>Various products, which require 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 for reference by all employees. Refer to SDS for appropriate personal protective equipment.</p> <ol style="list-style-type: none"> 1. Check the sag of the shredder chain is between 3/8" – 4/7". 2. Apply K2K grease to the drive chains and cogs. 3. Apply K2K grease to the spherical Roller Bearings via the two grease nipples in the bearing blocks. 4. Return equipment to service as prescribed by the current local lockout instructions providing lockout/restore procedures. 	10	9			
CLEANUP	4.	<p>Clean Up.</p> <p>Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to supervisor.</p>	5	7			
MACHINE LOGBOOK	5.	<p>Log problems discovered and work performed.</p> <p>Report unresolved problems at the end of tour to the SMO and generate appropriate work orders.</p>	5	9			