



maintenance management order

SUBJECT: PM Guidelines for Dual Pass Rough Cull
(DPRC)

DATE: January 12, 2001

NO: MMO-006-01

TO: DPRC Offices

FILE CODE: J9
ample:MM9428AF

This Maintenance Management Order (MMO) supersedes MMO-015-94. The VMARS Acronym for this equipment is RCULL and the Class Code is BA.

This MMO establishes maintenance guidelines for Dual Pass Rough Cull (DPRC) Machines. Included, as attachments, are workload guidelines and master checklists.

Local Maintenance Managers are directed to use these master checklists when preparing route sheets for local maintenance.

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.

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

WARNING

Various products, which require 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 for reference by all employees.

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--Revised Workload Estimate
 2. RCULL Master Checklist (Daily)
 3. RCULL Master Checklist (Weekly)
 4. RCULL Master Checklist (Quarterly)

ATTACHMENT 1

-SUMMARY-

REVISED WORKLOAD ESTIMATE

FOR

DUAL PASS ROUGH CULL (DPRC)

SUMMARY--REVISED WORKLOAD ESTIMATE
FOR
DUAL PASS ROUGH CULL

Service Condition (days/wk)	Routine PM (hrs/yr.)	Repair* (hrs/yr.)	Nonproductive Time** (hrs/yr)	Total Maint. Per Machine (hrs/yr)
6	364.9	109.5	47.4	521.8
7	415.2	124.6	54.0	593.8

* Repair maintenance estimates based on 30% of preventive maintenance.

** Based on 10% of the total PM and repair time..

PM CHECKLIST TIME SUMMARY:

03-RCULL-BA-001-M (DAILY) (6 days/wk)

58 minutes x 312 = 18096 = 301.6 hrs

03-RCULL-BA-001-M (DAILY) (7 days/wk)

58 minutes x 364 = 21112 min = 351.9 hrs

03-RCULL-BA-002-M (WEEKLY)

63 minutes x 52 = 3276 min = 54.6 hrs

03-RCULL-BA-003-M (QUARTERLY)

131 minutes x 4 = 524 min = 8.7 hrs

ATTACHMENT 2

RCULL MASTER CHECKLIST

03-RCULL-BA-001-M

DAILY

DAILY TIME TOTALS:

58 minutes

U.S. Postal Service Maintenance Checklist		IDENTIFICATION											
		Work Code		Equipment Acronym				Class Code		Number		Type	
		0	3	R	C	U	L	L	B	A	0	0	1
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency DAILY			

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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SAFETY STATEMENT

1. **COMPLY WITH ALL SAFETY PRECAUTIONS.** 3 ALL
min
- Disconnect power and activate lockouts as appropriate while working on this equipment. Where air pressure is required for cleaning, use low air pressure (30 psi or less). Eye protection (goggles or face shield) must be used when utilizing compressed air for cleaning. Check to ensure all employees are clear of the machine by physically walking around the entire machine. Report safety deficiencies to your supervisor immediately upon detection.

WARNING

Lockout machine's main electrical power using current prescribed lockout procedures for this equipment.

WARNING

Eye protection (goggles or face shield) must be worn when using compressed air.

INPUT HOPPER

2. **CLEAN INPUT HOPPER. -** 7 4
min
1. Remove debris from the head and tail pulley shafts and other catch points.
 2. Perform mail search. Return any mail found to correct mail path.
 3. Using low pressure compressed air or vacuum, clean Input Hopper.
3. **CHECK CONVEYOR BELTING. -** 3 4
min
1. Check conveyor belting and lacing for wear or damage.
 2. Check conveyor belting for proper tension and tracking.
 3. Check tail wiper to confirm it is touching the belt surface but not abrading it.

INPUT

4. **CLEAN PHOTOSENSORS (V1, V2, V3, V4). -** 2 4

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	0	3	R	C	U	L	L	B	A	0	0	1	M
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency DAILY			

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- | | | | | |
|-------------------|----|---------------------------------------|--|-----|
| HOPPER
(Cont.) | 1. | Clean photosensors. | | min |
| | 2. | Ensure mounts and hardware are tight. | | |

WARNING

**Eye protection (goggles or face shield)
must be worn when using compressed air
for cleaning.**

- | | | | | |
|---------------------|----|---|-------|---|
| METERING
INCLINE | 5. | CLEAN METERING INCLINE. - | 5 min | 4 |
| | 1. | Remove debris from the head and tail pulley shafts and any other catch points. | | |
| | 2. | Perform mail search. Return any mail found to correct mail path. | | |
| | 3. | Using low pressure compressed air or vacuum, clean Metering Incline. | | |
| | 6. | CHECK CONVEYOR BELTING. - | 3 min | 4 |
| | 1. | Check Metering Incline conveyor belting and lacing for wear or damage. | | |
| | 2. | Check for proper belt tension and tracking. | | |
| | 3. | Check tail wiper to confirm it is touching the belt surface but not abrading it. | | |
| | 7. | CHECK AND CLEAN SPEED CONTROL SKI ASSEMBLY. - | 2 min | 4 |
| | 1. | Check speed control ski assembly for damage or misalignment. | | |
| | 2. | Check for free movement of ski arms. | | |
| | 3. | Remove debris, dirt, and foreign matter from surface of ski, pivot shafts, and potentiometer. | | |

WARNING

**Eye protection (goggles or face shield)
must be worn when using compressed air**

U.S. Postal Service Maintenance Checklist		IDENTIFICATION									
		Work Code		Equipment Acronym				Class Code	Number		Type
		0	3	R	C	U	L	L	B	A	001M
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF			Frequency DAILY		

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for cleaning.

- | | | | | |
|---------------------------------|--|--|-------|---|
| TOP-BOTTOM
CULL
CONVEYORS | 8. | CLEAN TOP-BOTTOM CULL CONVEYORS. - | 9 min | 4 |
| | | 1. Remove string and other debris from the head and tail pulley shafts and gage drum assembly. | | |
| | | 2. Clear foreign matter from transfer chutes, tail pulley shafts, and gage drum. | | |
| | | 3. Clean any debris from all photosensor sight holes. | | |
| | | 4. Perform complete mail search including under the Cull Conveyors. | | |
| | 9. | CHECK CULL CONVEYOR BELTING. - | 3 min | 4 |
| | | 1. Check cull conveyor belting and lacing for wear and damage. | | |
| | | 2. Check for proper belt tension and tracking. | | |
| | | 3. Check tail wiper for wear and fraying. | | |
| | | 4. Check to verify the wiper lightly touches belt. | | |
| 10. | Examine gage drum spiral wrapped belting for damage, deterioration, and integrity of attachment. | 2 min | 4 | |

WARNING

Eye protection (goggles or face shield) must be worn when using compressed air for cleaning.

- | | | | | |
|---|-----|--|-------|---|
| WATERFALL,
EDGE
CONVEYOR,
AND FLATS
EXTRACTOR | 11. | CLEAN WATERFALL, EDGE CONVEYOR, AND FLATS EXTRACTOR. - | 8 min | 4 |
| | | 1. Remove material collected in debris tray under waterfall chute. | | |

U.S. Postal Service Maintenance Checklist	IDENTIFICATION												
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	0	3	R	C	U	L	L	B	A	0	0	1	M
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency DAILY			

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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		2. Check Waterfall chute, photosensor site holes, framework, and catch points for debris.		
		3. Remove string and other debris from the Edger Conveyor head and tail pulley shafts and any other catch points.		
		4. Perform mail search and return any mail found to correct mail path.		
		5. Using low pressure compressed air or vacuum, clean dirt and debris from Edger Conveyor throughout chute area.		
	12.	Check for proper adjustment of Flats Extractor. Ensure the contact or pinch of Flats Extractor wheels is set at 9-1/4 inches above the Edge Conveyor belt surface.	2 min	4
	13.	CLEAN PHOTOSENSORS (V6, V7, AND V8). -	2 min	4
		1. Clean photosensors V6, 7 and 8.		
		2. Verify mounts and hardware are tight.		
GENERAL	14.	RESTORE EQUIPMENT TO SERVICE. - Restore equipment to service as prescribed by the current Maintenance Management Order (MMO) providing lockout/restore procedures.	3 min	4
<div style="border: 1px solid black; padding: 5px; text-align: center;">WARNING</div> <p>Do not release this equipment for normal mail sorting if any deficiencies are safety related.</p>				
INPUT HOPPER	15.	CHECK PHOTOSENSORS (V1, V2, V3, V4). - Check photocell alignment. Adjust if necessary.	1 min	4
WATERFALL, EDGE CONVEYOR, AND FLATS EXTRACTOR	16.	CHECK PHOTOSENSORS (V6, V7, V8). - Check photocell alignment. Adjust if necessary.	1 min	4

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Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency DAILY			

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CLEAN-UP 17. **CLEAN UP.** - Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor. 2 min 4

ATTACHMENT 3

RCULL MASTER CHECKLIST

03-RCULL-BA-002-M

WEEKLY

WEEKLY TIME TOTALS:

63 minutes

U.S. Postal Service Maintenance Checklist		IDENTIFICATION											
		Work Code		Equipment Acronym				Class Code		Number		Type	
		0	3	R	C	U	L	L	B	A	0	0	2
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency WEEKLY			

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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SAFETY STATEMENT

- 1. COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and activate lockouts as appropriate while working on this equipment. Where air pressure is required for cleaning, use low air pressure (30 psi or less). Eye protection (goggles or face shield) must be used when utilizing compressed air for cleaning. Check to ensure all employees are clear of the machine by physically walking around the entire machine. Report safety deficiencies to your supervisor immediately upon detection.**

3 min ALL

WARNING

Lockout machine's main electrical power using current prescribed lockout procedures for this equipment.

INPUT HOPPER

- 2. CHECK AND LUBRICATE INPUT HOPPER DRIVE CHAIN. -**

6 min 4

- Lubricate the Input Hopper drive chain with SAE-30 oil.
- Check sprocket alignment and chain tension.
- Wrench test set screws to ensure they are tight.
- Confirm key position.
- Check chain for wear.
- Check oil level in gear box.

- 3. CHECK ALL INPUT HOPPER SCREENS AND GUARDS. -**

2 min 4

- Ensure screens and guards are secure.
- Ensure access doors are operable and properly contact the interlock switch.

METERING INCLINE

- 4. CHECK AND LUBRICATE THE METERING INCLINE DRIVE CHAIN. -**

6 min 4

U.S. Postal Service Maintenance Checklist		IDENTIFICATION											
		Work Code		Equipment Acronym				Class Code		Number		Type	
		0	3	R	C	U	L	L	B	A	0	0	2
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency WEEKLY			

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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		<ol style="list-style-type: none"> Lubricate the Metering Incline drive chain with SAE-30 oil. Check sprocket alignment and chain tension. Wrench test set screws to ensure they are tight. Confirm key position. Check chain for wear. Check oil level in gear box. 		
	5.	CHECK METERING INCLINE SCREENS AND GUARDS. -	2 min	4
		<ol style="list-style-type: none"> Ensure screens and guards are secure. Ensure access doors are operable and properly contact the interlock switch. 		
TOP-BOTTOM CULL CONVEYOR	6.	CHECK TOP GAGE DRUM CLEARANCE. -	2 min	4
		<ol style="list-style-type: none"> Rotate the top gage drum by hand: Ensure a 5/8-inch "GO" gage passes between the gage drum and the cotton conveyor belt at any point. Ensure an 11/16-inch thick "NO-GO" gauge does not pass between the gage drum and cotton conveyor belt at any point. 		
	7.	CHECK BOTTOM GAGE DRUM CLEARANCE. -	2 min	4
		<ol style="list-style-type: none"> Rotate the bottom gage drum by hand: Ensure a 5/8-inch "GO" gauge passes between the gage drum and the cotton conveyor belt at any point. Ensure an 11/16-inch thick "NO-GO" gauge does not pass between the gage drum and cotton conveyor belt at any point. 		
TOP-BOTTOM CULL	8.	CHECK AND LUBRICATE DRIVE CHAIN ON GAGE ROLLER DRIVES. -	10 min	4

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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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CONVEYOR
(Cont.)

1. Lubricate drive chain on both gage roller drives with SAE-30 oil.
 2. Check sprocket alignment and chain tension.
 3. Check oil level in both gear boxes.
-
9. **CHECK AND LUBRICATE DRIVE CHAIN ON CULL BELT DRIVES. -** 10 min 4
 1. Lubricate drive chain on cull belt drives with SAE-30 oil.
 2. Check sprocket alignment and chain tension.
 3. Check oil level in both cull belt drive gearboxes.
-
10. **CHECK GAGE DRUM AND FLANGE BEARINGS. -** 2 min 4
 1. Check for wear, dirt, fretting, and corrosion.
 2. Check drum shaft for looseness through bearing.
 3. Check bearing stops for correct positioning.
-
11. Wipe dirt and foreign matter from belt roller, take up pulley frame and bearings. 3 min 4
 12. Open Cull Conveyor belt guard cover to Flats Extractor drive assembly. Wipe dirt and foreign material from exterior of Flats Extractor motor, drive sheaves, pillow block bearings and extractor wheel assemblies. 5 min 4

WARNING

Do not release this equipment for normal mail sorting if any deficiencies are safety related.

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		0	3	R	C	U	L	L	B	A	0	0	2
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency WEEKLY			

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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- | | | | | |
|-------------------------------------|-----|--|-------|-----|
| GENERAL | 13. | RESTORE EQUIPMENT TO SERVICE. - Restore equipment to service as prescribed by the current Maintenance Management Order (MMO) providing lockout/restore procedures. | 3 min | ALL |
| START UP WARNING (AUDIO AND VISUAL) | 14. | VERIFY START UP WARNING HORNS AND LAMPS:
1. Verify proper operation of the first audio alarm in the control panel:
a. Press the start button on the main control panel.
b. Verify that the audible alarm in the control panel sounds (on/off) for five seconds.
c. Press (engage) and pull out (de-activate) an EMERGENCY STOP button.
2. Verify proper operation of the second audio and first visual alarm on the right side top cull conveyor.
a. Press the start button on the main control panel.
b. Verify that the audible alarm near the right side top cull conveyor sounds (on/off) for five seconds.
c. Verify the amber start up warning lamp on the pole above right side top cull conveyor flashes for ten seconds.
d. Press (engage) and pull out (de-activate) an EMERGENCY STOP button.
3. Repeat Step 2 for the remaining three audio and visual alarms located in the following areas:
a. Left side top cull conveyor
b. Waterfall | 5 min | 4 |

U.S. Postal Service Maintenance Checklist		IDENTIFICATION											
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		0	3	R	C	U	L	L	B	A	0	0	2
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency WEEKLY			

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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c. Output end of edge conveyor.

CLEAN-UP 15. **CLEAN-UP.** - Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor. 2 min ALL

ATTACHMENT 4

RCULL MASTER CHECKLIST

03-RCULL-BA-003-M

QUARTERLY

QUARTERLY TIME TOTALS:

131 minutes

U.S. Postal Service Maintenance Checklist	IDENTIFICATION												
	Work Code		Equipment Acronym				Class Code		Number			Type	
	0	3	R	C	U	L	L	B	A	0	0	3	M
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)	Equipment Model				Bulletin Filename MM9428AF				Frequency QUARTERLY				

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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SAFETY STATEMENT

1. **COMPLY WITH ALL SAFETY PRECAUTIONS.** Disconnect power and activate lockouts as appropriate while working on this equipment. Where air pressure is required for cleaning, use low air pressure (30 psi or less). Eye protection (goggles or face shield) must be used when utilizing compressed air for cleaning. Check to ensure all employees are clear of the machine by physically walking around the entire machine. Report safety deficiencies to your supervisor immediately upon detection.

3 min ALL

WARNING

Lockout machine's main electrical power using current prescribed lockout procedures for this equipment.

INPUT HOPPER

2. **CHANGE GEAR REDUCER OIL. -**
 1. Remove filler plug from the Hytrol H4C gear reducer.
 2. Remove the drain plug and drain old lubricant from the gear case.
 3. Replace the drain plug and refill the gear case with one quart of lubricant (Quaker State Super Quad 8514, AGMA Class 7EP or equal).
 4. Replace filler plug and wipe any excess lubricant from gear case and motor.
 5. Grease all pillow block bearings.

15 min 4

METERING INCLINE

3. **CHANGE GEAR REDUCER OIL. -**
 1. Remove filler plug from the Hytrol H4C gear reducer.
 2. Remove the drain plug and drain old lubricant from the gear case.
 3. Replace the drain plug and refill the gear case with one quart of lubricant (Quaker State Super Quad 8514, AGMA Class 7EP or equal).
 4. Replace filler plug.
 5. Wipe any excess lubricant from gear case and

15 min 4

U.S. Postal Service Maintenance Checklist		IDENTIFICATION									
		Work Code		Equipment Acronym				Class Code	Number		Type
		0	3	R	C	U	L	L	B	A	0 0 1 M
Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF			Frequency QUARTERLY		

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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motor.

6. Grease all pillow block bearings.

TOP AND
BOTTOM
CULL
CONVEYOR

4. **CHANGE GEAR REDUCER OIL. -** 45 min 4

1. Remove filler plug from the Hytrol H4C gear reducers on both the belt and gage roller drives on the bottom cull belt.
2. Remove the filler plug from the Hytrol H4C gear reducer for the belt on the top cull belt.
3. Remove the drain plugs on the three gear reducers listed above, and drain old lubricant.
4. Replace all three drain plugs and refill all gear reducers with a quart each of lubricant (Quaker State Super Quad 8514, AGMA Class 7EP or equal).
5. Replace all three filler plugs.
6. Wipe any excess lubricant from all gear reducers.
7. Grease all pillow block bearings.

5. **CHANGE EURODRIVE GEAR REDUCER OIL. -** 15 min 4

1. Remove the filler plug on the Eurodrive gear reducer on the top cull belt gage roller.
2. Remove the drain plug and drain the lubricant.
3. Replace the drain plug and refill the gear reducer with Quaker State Super Quad 8514, AGMA Class 7EP or equal.
4. Replace the filler plug.
5. Wipe any excess lubricant from the gear reducer.

WATERFALL
EDGE
CONVEYOR

6. **LUBRICATE SHAFT BEARINGS. -** 6 min 4

1. Lubricate pulley shaft bearings and Flats Extractor

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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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AND FLATS
EXTRACTOR

shaft bearings.

2. Clean grease fittings before lubricating.
3. Lubricate each grease fitting and wipe away excess.

GENERAL

RESTORE EQUIPMENT TO SERVICE. - Restore equipment to service as prescribed by the current Maintenance Management Order (MMO) providing lockout/restore procedures.

3 min

ALL

EMERGENCY STOP SWITCHES

7 **VERIFY PROPER OPERATION OF EMERGENCY STOP SWITCHES: -**

15 min

4

1. Start system as in 2.3.1 of MS-141, TL-1 page 2-5 and depress EMERGENCY STOP button S-1 located on the front of the control panel. Observe the following:
 - a. Red indicator light in EMERGENCY STOP switch illuminates.
 - b. All system components stop.
 - c. Red EMERGENCY STOP indicator on status panel illuminates.
 - d. Attempt to start the system, the system will not start with the Emergency Stop S-1 activated.
2. Pull out the EMERGENCY STOP switch S-1 and observe the following:
 - a. Red indicator light in EMERGENCY STOP switch turns off.
 - b. Red EMERGENCY STOP indicator light on status panel turns off.
 - c. No system components start automatically and system remains at rest.
3. Restart system and repeat above tests with each of the following EMERGENCY STOP switches:
 - a. **S-2**, located on input hopper incline side,

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Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)		Equipment Model				Bulletin Filename MM9428AF				Frequency QUARTERLY			

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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opposite control panel.

- b. **S-3**, located on left side of metering conveyor.
- c. **S-4**, located on right side of metering conveyor.
- d. **S-5**, located on left side of metering conveyor.
- e. **S-6**, located on right side support for the cull conveyor unit.
- f. **S-7**, located on waterfall section, opposite edge conveyor.
- g. **S-8**, located on edge conveyor, near flats extractor.

INTERLOCK SWITCHES

- | | | | |
|---|---|-----------------------------------|---|
| 8 | VERIFY PROPER OPERATION OF INTERLOCK SWITCHES: - | 8 min
for 4
12 min
for 6 | 4 |
|---|---|-----------------------------------|---|
1. Start system as in 2.3.1 of MS-141, TL-1 page 2-5 and open the right side hopper conveyor access door (activating interlock S16) located under the elevated end of the hopper conveyor. Observe the following:
 - a. All system components stop.
 - b. Red OPEN indicator light on main control panel illuminates.
 - c. Attempt to start the system, the system will not start with an access door open (interlock S16 activated).
 2. Close the door (de-activating interlock S16) and observe the following:
 - a. Red OPEN indicator light on main control panel turns off.
 - b. No system components start automatically and system remains at rest.
 3. Restart system and repeat above tests with each of the following access door interlock switches:
 - a. Right side metering incline conveyor access door (interlock S17), located under the elevated end of the metering conveyor.

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Equipment Nomenclature DUAL PASS ROUGH CULL (DPRC)	Equipment Model				Bulletin Filename MM9428AF				Frequency QUARTERLY				

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- b. Right side waterfall access door (if applicable, interlock S21) located above and before the edge conveyor.
- c. Left side hopper conveyor access door (interlock S18) located under the elevated end of the hopper conveyor.
- d. Left side metering incline conveyor access door (interlock S19), located under the elevated end of the metering conveyor.
- e. Left side waterfall access door (if applicable, interlock S20) located above and before the edge conveyor.

WARNING

Do not release this equipment for normal mail sorting if any deficiencies are safety related.

CLEAN-UP

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

2 min ALL