# MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE



# Maintenance Management Order

**SUBJECT:** Operational, Predictive, & Preventive

Maintenance Guidelines for Delivery Bar Code Sorter Phase 3-5 (DBCS) with Letter Automation Update Phase 2 (LAUPH2)

using eCBM

TO: Maintenance Managers, LAUPH2 DBCS

Phase 3-5 Offices

**DATE:** February 7, 2020

**NO:** MMO-148-19

FILE CODE: 2DB

rhay:mm19132ab

|          | Online Change Record |  |  |  |  |  |  |  |  |  |  |  |  |
|----------|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Change # |                      |  |  |  |  |  |  |  |  |  |  |  |  |
| 1        | 05/22/2020           | Added the Infrared Thermography information after the online |  |  |  |  |  |  |  |  |  |  |  |
|          | change record.       |  |  |  |  |  |  |  |  |  |  |  |  |

Infrared Thermography Information for DBCS Based Sorting Equipment – Plug and Receptacle Connectors is located at MTSC>HELPDESK>Service Portal>Knowledge Base>KB0013384.

This Maintenance Management Order (MMO) provides Preventive, Predictive, and Operational Maintenance Guidelines for the Delivery Bar Code Sorter Phase 3-5 with Letter Automation Update Phase 2. The acronym is DBCS and the class code is CK.

The workhours indicated in the workload estimate (Attachment 1) reflect the *maximum* annual workhours required to maintain each system. Actual workhour requirements and the frequency of tasks are dependent on pieces processed. Therefore, PM workhour requirements will vary day-to-day based on site specific machine utilization. Management may modify task frequencies to address local conditions.

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

Preventive Maintenance (PM) guidelines provide maintenance employees with the recommended task based maintenance activities. The Electronic Conditioned Based Maintenance (eCBM) is an abbreviated task list that represents a portion of the PM checklist. The complete master PM checklist must be accessible to all maintenance employees when performing PM and eCBM task based maintenance activities.

Web Access: http://www1.mtsc.usps.gov

# 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

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.

# 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.

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

Frederick L Jackson III

Manager

Maintenance Technical Support Center

**HQ** Maintenance Operations

- 1. Summary Workload Estimate for DBCS Phase 3-5 with LAUPH2
- 2. Master Checklist: 03-DBCS-CK-001-M: Power Off and Power On Tasks
- 3. Master Checklist: 09-DBCS-CK-001-M: Operational Maintenance

# **ATTACHMENT 1**

**SUMMARY** 

**WORKLOAD ESTIMATE** 

**FOR** 

**DBCS Phase 3-5 with LAUPH2** 

# SUMMARY WORKLOAD ESTIMATE FOR DBCS Phase 3-5 with LAUPH2

|                        |                           |                | 1                     |                    |                 |  |              |                |  |  |  |
|------------------------|---------------------------|----------------|-----------------------|--------------------|-----------------|--|--------------|----------------|--|--|--|
|                        |                           | 1              | SUMMARY V             | WORK LOAD ES       | TIMATES FOR I   | DBCS - CK                                    |              |                |  |  |  |
| Number of<br>Processed | mail pieces<br>for 1 Year |                |                       |                    |                 |  |              |                |  |  |  |
| >                      |                           | 58,000,000     | High end es           | <u>timate</u>      | For a 110 Stac  | ker Machine                                  |              |                |  |  |  |
| Operation              | Routine                   | Repair         | Routine               | Non-<br>Productive | Total           | Operational Maintenance + Total<br>Servicing |              |                |  |  |  |
| Days                   | Servicing<br>per          | Time per       | Servicing +<br>Repair | Time per           | Servicing per   | 1 Tour                                       | 2 Tours      | 3 Tours        |  |  |  |
|                        | Machine                   | Machine        | Time                  | Machine            | Machine         | Hrs/Yr                                       | Hrs/Yr       | Hrs/Yr         |  |  |  |
|                        | (Hrs/Yr)                  | (Hrs/Yr) *     | (Hrs/Yr)              | (Hrs/Yr) **        | (Hrs/Yr)        | OpM x 1                                      | OpM x 2      | OpM x 3        |  |  |  |
| 5 Days                 | 516.93                    | 155.08         | 672.01                | 67.20              | 739.21          | 938.54                                       | 1,137.88     | 1,337.21       |  |  |  |
| 6 Days                 | 590.60                    | 177.18         | 767.78                | 76.78              | 844.56          | 1,083.76                                     | 1,322.96     | 1,562.16       |  |  |  |
| 7 Days                 | 664.27                    | 199.28         | 863.55                | 86.36              | 949.91          | 1,228.97                                     | 1,508.04     | 1,787.11       |  |  |  |
| *                      | Repair mair               | ntenance estir | nates based o         | on 30% of preve    | ntive maintenan | ce.  |              |                |  |  |  |
| **                     | Based on 1                | 0% of total PN | I and repair.         |                    |                 |  |              |                |  |  |  |
|                        |                           | THRESHOL       | DS and PM T           | IME SUMMARY        | Hrs PER Year    | OPERATIONAL MAINTENANCE                      |              |                |  |  |  |
|                        |                           |                | Daily                 | 515.67             |                 | 46 MIN. PER                                  | DAY PER MA   |                |  |  |  |
|                        |                           |                | Monthly               | 8.20               |                 | One Tour                                     | Two<br>Tours | Three<br>Tours |  |  |  |
|                        |                           |                | 0                     | 0.00               | 5 Day           | 199.33                                       | 398.67       | 598.00         |  |  |  |
|                        |                           |                | 1,100,000             | 71.18              | 6 Day           | 239.20                                       | 478.40       | 717.60         |  |  |  |
|                        |                           |                | 2,200,000             | 18.45              | 7 Day           | 279.07                                       | 558.13       | 837.20         |  |  |  |
|                        |                           |                | 4,400,000             | 34.71              |                 |  |              |                |  |  |  |
|                        |                           |                | 14,300,000            | 3.31               |                 |  |              |                |  |  |  |
|                        |                           |                | 20,000,000            | 10.59              |                 |  |              |                |  |  |  |
|                        |                           |                | 57,200,000            | 2.16               |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
| ļ                      |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |
|                        |                           |                |                       |                    |                 |  |              |                |  |  |  |

|                  | Mach             |                     |                          |                    |                  |  |                 |                 |  |  |  |
|------------------|------------------|---------------------|--------------------------|--------------------|------------------|--|-----------------|-----------------|--|--|--|
| # of<br>Stackers | Routine          | Repair              | Routine                  | Non-<br>Productive | Total            | Operational Maintenance +<br>Total Servicing |                 |                 |  |  |  |
|                  | Servicing<br>per | Time<br>per         | Servicing<br>+<br>Repair | Time per           | Servicing<br>per | 1 Tour                                       | 2 Tours         | 3 Tours         |  |  |  |
|                  | Machine          | Machine<br>(Hrs/yr) | Time                     | Machine            | Machine          | Hrs/Yr<br>OpM x                              | Hrs/Yr<br>OpM x | Hrs/Yr<br>OpM x |  |  |  |
|                  | (Hrs/Yr)         | * *                 | (Hrs/Yr)                 | (Hrs/yr) **        | (Hrs/Yr)         | 1  | 2               | 3               |  |  |  |
| 110              | 516.93           | 155.08              | 672.01                   | 67.20              | 739.21           | 938.54                                       | 1137.88         | 1337.21         |  |  |  |
| 126              | 527.14           | 158.14              | 685.28                   | 68.53              | 753.81           | 953.14                                       | 1152.48         | 1351.81         |  |  |  |
| 142              | 541.80           | 162.54              | 704.34                   | 70.43              | 774.77           | 974.10                                       | 1173.44         | 1372.77         |  |  |  |
| 158              | 556.54           | 166.96              | 723.51                   | 72.35              | 795.86           | 995.19                                       | 1194.53         | 1393.86         |  |  |  |
| 174              | 571.21           | 171.36              | 742.57                   | 74.26              | 816.83           | 1016.16                                      | 1215.50         | 1414.83         |  |  |  |
| 190              | 586.03           | 175.81              | 761.84                   | 76.18              | 838.02           | 1037.35                                      | 1236.69         | 1436.02         |  |  |  |
| 206              | 600.68           | 180.21              | 780.89                   | 78.09              | 858.98           | 1058.31                                      | 1257.65         | 1456.98         |  |  |  |
| 222              | 615.42           | 184.63              | 800.04                   | 80.00              | 880.04           | 1079.37                                      | 1278.71         | 1478.04         |  |  |  |
| 238              | 626.12           | 187.84              | 813.96                   | 81.40              | 895.36           | 1094.69                                      | 1294.03         | 1493.36         |  |  |  |
| 254              | 644.73           | 193.42              | 838.15                   | 83.82              | 921.97           | 1121.30                                      | 1320.64         | 1519.97         |  |  |  |
| 270              | 659.39           | 197.82              | 857.20                   | 85.72              | 942.92           | 1142.25                                      | 1341.59         | 1540.92         |  |  |  |
| 286              | 674.11           | 202.23              | 876.34                   | 87.63              | 963.97           | 1163.30                                      | 1362.64         | 1561.97         |  |  |  |
| 302              | 688.77           | 206.63              | 895.41                   | 89.54              | 984.95           | 1184.28                                      | 1383.62         | 1582.95         |  |  |  |

|                  | Mach             | ine Oper            | ating 6 Da               | ys/Week            |                  |                 |                              |                 |  |  |
|------------------|------------------|---------------------|--------------------------|--------------------|------------------|-----------------|------------------------------|-----------------|--|--|
| # of<br>Stackers | Routine          | Repair<br>Time      | Routine                  | Non-<br>Productive | Total            |                 | onal Mainte<br>otal Servicir |                 |  |  |
|                  | Servicing<br>per | per                 | Servicing<br>+<br>Repair | Time per           | Servicing<br>per | 1 Tour          | 2 Tours                      | 3 Tours         |  |  |
|                  | Machine          | Machine<br>(Hrs/yr) | Time                     | Machine            | Machine          | Hrs/Yr<br>OpM x | Hrs/Yr<br>OpM x              | Hrs/Yr<br>OpM x |  |  |
|                  | (Hrs/Yr)         | * *                 | (Hrs/Yr)                 | (Hrs/yr) **        | (Hrs/Yr)         | 1               | 2                            | 3               |  |  |
| 110              | 590.60           | 177.18              | 767.78                   | 76.78              | 844.56           | 1083.76         | 1322.96                      | 1562.16         |  |  |
| 126              | 601.67           | 180.50              | 782.17                   | 78.22              | 860.39           | 1099.59         | 1338.79                      | 1577.99         |  |  |
| 142              | 617.20           | 185.16              | 802.36                   | 80.24              | 882.60           | 1121.80         | 1361.00                      | 1600.20         |  |  |
| 158              | 632.81           | 189.84              | 822.65                   | 82.27              | 904.92           | 1144.12         | 1383.32                      | 1622.52         |  |  |
| 174              | 648.34           | 194.50              | 842.84                   | 84.28              | 927.12           | 1166.32         | 1405.52                      | 1644.72         |  |  |
| 190              | 664.03           | 199.21              | 863.24                   | 86.32              | 949.56           | 1188.76         | 1427.96                      | 1667.16         |  |  |
| 206              | 679.55           | 203.87              | 883.42                   | 88.34              | 971.76           | 1210.96         | 1450.16                      | 1689.36         |  |  |
| 222              | 695.15           | 208.55              | 903.70                   | 90.37              | 994.07           | 1233.27         | 1472.47                      | 1711.67         |  |  |
| 238              | 706.72           | 212.02              | 918.74                   | 91.87              | 1010.61          | 1249.81         | 1489.01                      | 1728.21         |  |  |
| 254              | 726.20           | 217.86              | 944.06                   | 94.41              | 1038.47          | 1277.67         | 1516.87                      | 1756.07         |  |  |
| 270              | 741.72           | 222.52              | 964.24                   | 96.42              | 1060.66          | 1299.86         | 1539.06                      | 1778.26         |  |  |
| 286              | 757.31           | 227.19              | 984.50                   | 98.45              | 1082.95          | 1322.15         | 1561.35                      | 1800.55         |  |  |
| 302              | 772.84           | 231.85              | 1004.69                  | 100.47             | 1105.16          | 1344.36         | 1583.56                      | 1822.76         |  |  |

|                  | Mach                 | ine Oper            | ating 7 Day          | ys/Week            |                    |   |                 |                 |  |  |  |
|------------------|----------------------|---------------------|----------------------|--------------------|--------------------|---|-----------------|-----------------|--|--|--|
| # of<br>Stackers | Routine<br>Servicing | Repair<br>Time      | Routine<br>Servicing | Non-<br>Productive | Total<br>Servicing | Operational Maintenance + Total Servicing |                 |                 |  |  |  |
|                  | per                  | per                 | +<br>Repair          | Time per           | per                | 1 Tour                                    | 2 Tours         | 3 Tours         |  |  |  |
|                  | Machine              | Machine<br>(Hrs/yr) | Time                 | Machine            | Machine            | Hrs/Yr<br>OpM x                           | Hrs/Yr<br>OpM x | Hrs/Yr<br>OpM x |  |  |  |
|                  | (Hrs/Yr)             | *                   | (Hrs/Yr)             | (Hrs/yr) **        | (Hrs/Yr)           | 1   | 2               | 3               |  |  |  |
| 110              | 664.27               | 199.28              | 863.55               | 86.36              | 949.91             | 1228.97                                   | 1508.04         | 1787.11         |  |  |  |
| 126              | 676.20               | 202.86              | 879.06               | 87.91              | 966.97             | 1246.03                                   | 1525.10         | 1804.17         |  |  |  |
| 142              | 692.60               | 207.78              | 900.38               | 90.04              | 990.42             | 1269.48                                   | 1548.55         | 1827.62         |  |  |  |
| 158              | 709.08               | 212.72              | 921.80               | 92.18              | 1013.98            | 1293.05                                   | 1572.11         | 1851.18         |  |  |  |
| 174              | 725.47               | 217.64              | 943.12               | 94.31              | 1037.43            | 1316.50                                   | 1595.57         | 1874.63         |  |  |  |
| 190              | 742.03               | 222.61              | 964.64               | 96.46              | 1061.10            | 1340.17                                   | 1619.24         | 1898.30         |  |  |  |
| 206              | 758.42               | 227.53              | 985.94               | 98.59              | 1084.53            | 1363.60                                   | 1642.67         | 1921.73         |  |  |  |
| 222              | 774.88               | 232.47              | 1007.35              | 100.74             | 1108.09            | 1387.15                                   | 1666.22         | 1945.29         |  |  |  |
| 238              | 787.32               | 236.20              | 1023.52              | 102.35             | 1125.87            | 1404.94                                   | 1684.01         | 1963.07         |  |  |  |
| 254              | 807.67               | 242.30              | 1049.97              | 105.00             | 1154.97            | 1434.03                                   | 1713.10         | 1992.17         |  |  |  |
| 270              | 824.05               | 247.22              | 1071.27              | 107.13             | 1178.40            | 1457.46                                   | 1736.53         | 2015.60         |  |  |  |
| 286              | 840.51               | 252.15              | 1092.66              | 109.27             | 1201.93            | 1480.99                                   | 1760.06         | 2039.13         |  |  |  |
| 302              | 856.91               | 257.07              | 1113.98              | 111.40             | 1225.38            | 1504.44                                   | 1783.51         | 2062.58         |  |  |  |

| Repair maintenance estimate | es based on | 30.00% | of preventive maintenance. |
|-----------------------------|-------------|--------|----------------------------|
|                             | Based on    | 10.00% | of total PM and repair.    |

|               |              | Pov | ver Off | Tasks |      |      |         |
|---------------|--------------|-----|---------|-------|------|------|---------|
|               | Threshold -> | 3K  | 1.1M    | 2.2M  | 4.4M | 4.4M |         |
|               | Item # ->    | 5   | 8       | 9     | 10   | 19   |         |
|               | 110          | 9   | 35      | 37    | 116  | 21   |         |
|               | 126          | 1   | 5       | 3     | 10   | 3    |         |
|               | 142          | 2   | 10      | 6     | 20   | 6    |         |
|               | 158          | 3   | 15      | 9     | 30   | 9    |         |
|               | 174          | 4   | 20      | 12    | 40   | 12   |         |
|               | 190          | 5   | 25      | 15    | 50   | 15   |         |
| #<br>Stackers | 206          | 6   | 30      | 18    | 60   | 18   | Minutes |
| Otackers      | 222          | 7   | 35      | 21    | 70   | 21   |         |
|               | 238          | 8   | 40      | 24    | 80   | 24   |         |
|               | 254          | 9   | 45      | 27    | 90   | 27   |         |
|               | 270          | 10  | 50      | 30    | 100  | 30   |         |
|               | 286          | 11  | 55      | 33    | 110  | 33   |         |
|               | 302          | 12  | 60      | 36    | 120  | 36   |         |

|               |              | Power O | n Task | S     |     |         |
|---------------|--------------|---------|--------|-------|-----|---------|
|               | Threshold -> | Monthly | 1.1M   | 14.3M | 20M |         |
|               | Item # ->    | 22      | 28     | 29    | 23  |         |
|               | 110          | 18      | 7      | 14    | 219 |         |
|               | 126          | 2       | 1      | 2     | 10  |         |
|               | 142          | 4       | 2      | 2     | 20  |         |
|               | 158          | 6       | 3      | 3     | 30  |         |
|               | 174          | 8       | 4      | 3     | 40  |         |
| щ             | 190          | 10      | 5      | 4     | 52  |         |
| #<br>Stackers | 206          | 12      | 6      | 4     | 62  | Minutes |
| Olackers      | 222          | 14      | 7      | 5     | 72  |         |
|               | 238          | 16      | 8      | 5     | 82  |         |
|               | 254          | 18      | 9      | 6     | 90  |         |
|               | 270          | 20      | 10     | 6     | 100 |         |
|               | 286          | 22      | 11     | 7     | 110 |         |
|               | 302          | 24      | 12     | 7     | 120 |         |

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## **ATTACHMENT 2**

### **MASTER CHECKLIST**

03-DBCS-CK-001-M

### POWER OFF AND POWER ON TASKS

Time Total: See Attachment 1

| U.S. Postal Service                             | IDENTIFICATION              |  |   |   |   |   |       |                 |              |        |        |   |      |   |   |
|---|-----------------------------|--|---|---|---|---|-------|-----------------|--------------|--------|--------|---|------|---|---|
| Maintenance Checklist                           | WORK EQUIPMENT CODE ACRONYM |  |   |   |   |   |       |                 | CL/<br>CO    | NUMBER |        |   | TYPE |   |   |
|   | 0                           | 3  | D | В | С | S |       |                 |              | С      | K      | 0 | 0    | 1 | М |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi                        | Equipment Model DBCS Phase 3-5 with LAUPH2 |   |   |   |   | Bulle | in Filei<br>mm1 | name<br>9132 | O      | ccurre |   | CBM  |   |   |

| Part or   | Item | Task Statement and Instruction               | Est.  | Min.  |       | Threshold | S     |
|-----------|------|--|-------|-------|-------|-----------|-------|
| Component | No   | (Comply with all current safety precautions) | Time  | Skill | Run   | Pieces    | Freq. |
|           |      |  | Req   | Lev   | Hours | Fed       | •     |
|           |      |  | (min) |       |       | (000)     |       |

|                                    |    |  | (min) |     | (000) |  |
|------------------------------------|----|--|-------|-----|-------|--|
| SAFETY<br>STATEMENT                | 1. | 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. | 1     | All |       |  |
|                                    |    | 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 cannot be used. Report safety deficiencies to your supervisor immediately upon detection.        |       |     |       |  |
|                                    |    | 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.  |       |     |       |  |
| DBCS SYSTEM:<br>REPORT<br>ANALYSIS | 2. | View End of Day, and Tracking Report.  Prior to performing the power down lockout procedures analyze data provided on these reports to determine if any areas of machine are degraded or in need of attention.   | 4     | 10  | 1     |  |
| DBCS SYSTEM:<br>COMPUTERS          | 3. | Shut down the DBCS.  Shut down the DBCS in accordance with the procedure as outlined in the most recent documentation; presently the MS-298.  As of the date of this writing the detailed steps to properly shut down the system are in MS Handbook MS-298, Volume B, Section 5.2.5.  NOTE   | 1     | 9   | 1     |  |
|                                    |    | If any problems are encountered while performing these procedures report them to your supervisor.  |       |     |       |  |

| U.S. Postal Service                             | IDENTIFICATION |  |   |   |   |   |             |    |  |  |               |   |        |   |      |   |
|---|----------------|--|---|---|---|---|-------------|----|--|--|---------------|---|--------|---|------|---|
| Maintenance Checklist                           |                |  |   |   |   |   | MENT<br>NYM |    |  |  | CLASS<br>CODE |   | NUMBER |   | TYPE |   |
|   | 0              | 3  | D | В | С | S |             |    |  |  | C             | K | 0      | 0 | 1    | М |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi           | Equipment Model DBCS Phase 3-5 with LAUPH2 |   |   |   |   | h           | Ві |  |  | name<br>9132  | C | ccurr  |   | СВМ  |   |

| Part or                    | Item | Task Statement and Instruction  | Est.  | Min.  |       | Thresholds | ,     |
|----------------------------|------|---|-------|-------|-------|------------|-------|
| Component                  | No   | (Comply with all current safety precautions)  | Time  | Skill | Run   | Pieces     | Freq. |
| ·                          |      |   | Req   | Lev   | Hours | Fed        |       |
|                            |      |   | (min) |       |       | (000)      |       |
| DBCS SYSTEM:<br>POWER DOWN | 4.   | Power down and lock out power.  | 1     | ALL   |       | 1          |       |
|                            |      | WARNING   |       |       |       |            |       |
|                            |      | Electrical power will always be present at the input of the disconnect device unless the circuit is disabled at the facility power distribution panel located at                                |       |       |       |            |       |
|                            |      | Power down the machine and lock out its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures.  |       |       |       |            |       |
| DBCS SYSTEM:               | 5.   | Mail search.  | 9     | 7     |       | 3          |       |
| MAIL SEARCH                |      | <ol> <li>Remove all machine panels, except for<br/>diverter plate cover assemblies (Wimpy<br/>panels), stacker lower front panel assemblies,<br/>and Main Power Distribution panel.</li> </ol>  |       |       |       |            |       |
|                            |      | <ol> <li>Ensure each cover's gas spring and retaining<br/>clip is able to hold cover in uppermost<br/>position. Report defective components to<br/>supervisor or perform work order.</li> </ol> |       |       |       |            |       |
|                            |      | 3. Search all base plate areas and module interiors for mail.   |       |       |       |            |       |
|                            |      | 4. Remove any mail pieces found.  |       |       |       |            |       |
|                            |      | 5. Remove any large amounts of debris while doing this mail search to prevent clogging of the vacuum when doing vacuuming tasks.  |       |       |       |            |       |
|                            |      | <ol><li>Follow local procedures for returning mail to<br/>Operations for processing.</li></ol>  |       |       |       |            |       |
| DBCS SYSTEM:               | 6.   | Vacuum/Clean machine.   | 30    | 7     |       | 60         |       |
| VACUUM/CLEAN 1             |      | WARNING   |       |       |       |            |       |
|                            |      | Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral-stacking auger.   |       |       |       |            |       |
|                            |      |   |       |       |       |            |       |

| U.S. Postal Service                             |      |  |   |   |   |   |                         | IDE | NTIF | ICATI        | ON          |           |        |      |     |      |
|---|------|--|---|---|---|---|-------------------------|-----|------|--------------|-------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           | CO   |  |   |   |   |   | MEN <sup>-</sup><br>NYM |     |      |              |             | ASS<br>DE | N      | JMBE | ĒR  | TYPE |
|   | 0    | 3  | D | В | С | S |                         |     |      |              | C           | K         | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi | Equipment Model B DBCS Phase 3-5 with LAUPH2 |   |   |   |   |                         |     |      | Filen<br>nm1 | ame<br>9132 | 0         | ccurre |      | СВМ |      |
|   |      |  |   |   |   |   |                         |     |      |              |             |           |        |      |     |      |

|           |      | LAUPH2   |              |       |       |              |       |
|-----------|------|--|--------------|-------|-------|--------------|-------|
| Part or   | Item | Task Statement and Instruction   | Est.         | Min.  |       | Threshold    | s     |
| Component | No   | (Comply with all current safety precautions)   | Time         | Skill | Run   | Pieces       | Freq. |
|           |      |  | Req<br>(min) | Lev   | Hours | Fed<br>(000) |       |
|           |      |  | (111111)     | l     |       | (000)        |       |
|           |      | WARNING  |              |       |       |              |       |
|           |      | Use extreme caution in area of pocket  |              |       |       |              |       |
|           |      | assembly wear plate. On some   |              |       |       |              |       |
|           |      | machines, wear plate extends past edge   |              |       |       |              |       |
|           |      | of its base and into stacker area,   |              |       |       |              |       |
|           |      | exposing sharp edges.  |              |       |       |              |       |
|           |      | WARNING  |              |       |       |              |       |
|           |      | Discard solvent soaked materials   |              |       |       |              |       |
|           |      | according to local procedures to prevent   |              |       |       |              |       |
|           |      | pollution or spontaneous combustion.   |              |       |       |              |       |
|           |      | NOTE   |              |       |       |              |       |
|           |      | While performing this task, check for loose,   |              |       |       |              |       |
|           |      | cracked, or damaged hinges in Reader   |              |       |       |              |       |
|           |      | Module. Notify supervisor if problem found.  Refer to the most recent MMO, currently         |              |       |       |              |       |
|           |      | MMO-077-03, dealing with this problem.   |              |       |       |              |       |
|           |      | MTSC>BULLETINS>Bulletins by Year   |              |       |       |              |       |
|           |      | /acuum and clean internal and base-plate areas   |              |       |       |              |       |
|           |      | of the machine starting at the front of stacker nodule #1, and proceed toward the feeder and |              |       |       |              |       |
|           |      | round the machine to end up and include the rear   |              |       |       |              |       |
|           |      | of stacker module #1. In the process of doing this,  |              |       |       |              |       |
|           |      | ensure the following areas are cleaned:  |              |       |       |              |       |
|           |      | . The P-SEN10 and P-LED10 assemblies.  |              |       |       |              |       |
|           |      | <ol><li>Peeder section two power supplies (exterior cage).</li></ol>                         |              |       |       |              |       |
|           |      | Outside surfaces of jogger assembly.   |              |       |       |              |       |
|           |      | Exterior of monitor, keyboard, printer, and printer stand.                                   |              |       |       |              |       |
|           |      | 5. Reader Module 5v power supply and light barriers.   |              |       |       |              |       |
|           |      | 6. Exterior of the System Computer and the WFOV Processor.                                   |              |       |       |              |       |
|           |      | <ol> <li>Tray label printers cleaning and label stock<br/>loading.</li> </ol>                |              |       |       |              |       |
|           |      |  |              |       |       |              |       |
|           |      |  |              |       |       |              |       |

| U.S. Postal Service                             |  |          |   |   |   |   |               | IDENTIF | ICAT | ION          |           |        |      |     |      |
|---|--|----------|---|---|---|---|---------------|---------|------|--------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           | WC   | RK<br>DE |   |   |   |   | PMENT<br>ONYM |         |      |              | ASS<br>DE | N      | UMBE | ĒR  | TYPE |
|   | 0  | 3        | D | В | О | S |               |         |      | С            | K         | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |          |   |   |   |   |               |         |      | name<br>9132 |           | Occurr |      | СВМ |      |

| Part or                        | Item |                | Task Statement and Instruction  | Est.  | Min.  |              | Threshold     | s     |
|--------------------------------|------|----------------|---|-------|-------|--------------|---------------|-------|
| Component                      | No   |                | Comply with all current safety precautions)   | Time  | Skill | Run<br>Hours | Pieces<br>Fed | Freq. |
|                                |      |                |   | (min) |       | 110010       | (000)         |       |
|                                |      | a.             | Clean/vacuum interior and exterior of label printers, located on first and eighth stacker modules.  |       |       |              |               |       |
|                                |      | b.             | Ensure label printers are loaded with a sufficient supply of label material to support three tours of operation. If required, load the label printer: |       |       |              |               |       |
|                                |      |                | Insert label stock between guides into back of label printer.   |       |       |              |               |       |
|                                |      |                | <ol> <li>Place wide end of label stock into<br/>label printer first, face down.</li> </ol>  |       |       |              |               |       |
|                                |      |                | 3) Push print head lever back.  |       |       |              |               |       |
|                                |      |                | <ol> <li>Push label stock through until it<br/>comes out front of label printer.</li> </ol>   |       |       |              |               |       |
| DBCS SYSTEM:<br>VACUUM/CLEAN 2 | 7.   | Clean ar       | d/or Vacuum the following areas of nine:  | 8     | 7     |              | 175           |       |
|                                |      |                | WARNING   |       |       |              |               |       |
|                                |      |                | rd solvent soaked materials<br>ding to local procedures to prevent<br>ion or spontaneous combustion.  |       |       |              |               |       |
|                                |      | Clea           | in ICS-3 system electronic enclosure. in interior of ICS-3 electronic enclosure electronic enclosure filters.   |       |       |              |               |       |
|                                |      | 2. Clea        | nn ICS-3 system read head as follows:   |       |       |              |               |       |
|                                |      | a.             | Clean ICS-3 read head. Recommended cleaner is Riptide, PSN 6850-01-394-0164.  |       |       |              |               |       |
|                                |      | b.             | Clean read head reflector.<br>Recommended cleaner is Riptide.   |       |       |              |               |       |
|                                |      | 3. Clea        | n WFOV Assembly.  |       |       |              |               |       |
|                                |      |                | WARNING   |       |       |              |               |       |
|                                |      | aroui<br>of th | extreme caution when working and the WFOV aperture. The edges aperture may become extremely during use of the DBCS.                                   |       |       |              |               |       |

| U.S. Postal Service                             |  |            |   |   |   |   |                  | IDE | NTIF         | ICATI | ON                     |           |        |      |     |      |
|---|--|------------|---|---|---|---|------------------|-----|--------------|-------|------------------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           |  | ORK<br>ODE |   |   | _ |   | MEN <sup>*</sup> | -   |              |       |                        | ASS<br>DE | N      | UMBE | ĒR  | TYPE |
|   | 0  | 3          | D | В | О | S |                  |     |              |       | С                      | K         | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |            |   |   |   |   |                  |     | ulletin<br>n |       | <sup>ame</sup><br>9132 | C         | ccurre |      | СВМ |      |

|  |            |                     | LAOI 112  |                              |                      |              |                             |            |
|--|------------|---------------------|---|------------------------------|----------------------|--------------|-----------------------------|------------|
| Part or<br>Component                       | Item<br>No |                     | Task Statement and Instruction (Comply with all current safety precautions)   | Est.<br>Time<br>Req<br>(min) | Min.<br>Skill<br>Lev | Run<br>Hours | Thresholds Pieces Fed (000) | s<br>Freq. |
|  |            | a.                  | Following safety precautions, remove the Aperture/Illumination assembly. Loosen the thumbscrew on top and pull straight up to remove. Check the aperture plates and sapphire glass for foreign objects.       | ()                           |                      |              | (000)                       |            |
|  |            | b.                  | Remove dust buildup on exterior of camera sapphire glass using dry cotton swabs. If adhesive buildup appears on the sapphire glass, use a swab or soft cloth wetted with an acceptable site approved cleaner. |                              |                      |              |                             |            |
|  |            | C.                  | If dust is found inside Aperture/ Illumination assembly refer to most current documentation, currently the MS-212, Appendix A for detailed cleaning instructions.   |                              |                      |              |                             |            |
|  |            | d.                  | Replace Aperture/Illumination assembly. Slide assembly straight down on front of camera head assembly and tighten thumbscrew.   |                              |                      |              |                             |            |
| DBCS SYSTEM:<br>VACUUM/CLEAN 3<br>STACKERS | 8.         |                     | Stacker Modules 2 through to the end by vacuuming, remove dust and debris ws:  WARNING  | 35                           | 7                    |              | 1100                        |            |
|  |            | shar                | es of spiral stacking auger may be  |                              |                      |              |                             |            |
|  |            | asse<br>mac<br>of i | extreme caution in area of pocket mbly wear plate. On some hines, wear plate extends past edge ts base and into stacker area, using sharp edges.  |                              |                      |              |                             |            |
|  |            |                     | WARNING  ard solvent soaked materials ording to local procedures to prevent ation or spontaneous combustion.  |                              |                      |              |                             |            |

| U.S. Postal Service                             |  |          |   |   |   |   |             | IDE | NTIF | CAT | ON           |           |       |      |     |      |
|---|--|----------|---|---|---|---|-------------|-----|------|-----|--------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           | WC<br>CO                                   | RK<br>DE |   |   |   |   | MENT<br>NYM |     |      |     |              | ASS<br>DE | N     | JMBE | R   | TYPE |
|   | 0  | 3        | D | В | С | S |             |     |      |     | C            | K         | 0     | 0    | 1   | M    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |          |   |   |   |   |             |     |      |     | name<br>9132 | C         | ccurr |      | СВМ |      |

|                |      | LAUPTIZ  |       |       |       |            |       |
|----------------|------|--|-------|-------|-------|------------|-------|
| Part or        | Item | Task Statement and Instruction   | Est.  | Min.  | -     | Thresholds |       |
| Component      | No   | (Comply with all current safety precautions)   | Time  | Skill | Run   | Pieces     | Freq. |
|                |      |  | Req   | Lev   | Hours | Fed        | ·     |
|                |      |  | (min) |       |       | (000)      |       |
|                |      | 1. Clean stacker modules #2 through the end of   |       |       |       |            |       |
|                |      | the machine, transport area, interior, and   |       |       |       |            |       |
|                |      | pocket assemblies, including light barriers.   |       |       |       |            |       |
|                |      | This does not include the Wimpy Panels.  |       |       |       |            |       |
|                |      | 2. Ensure light barriers are clean.  |       |       |       |            |       |
|                |      | Z. Litsure light partiers are clean.   |       |       |       |            |       |
| DBCS SYSTEM:   | 9.   | Check belts and rollers.   | 37    | 9     |       | 2200       |       |
| BELTS, ROLLERS | 0.   |  |       |       |       |            |       |
| AND HARDWARE   |      | WARNING  |       |       |       |            |       |
|                |      | Discard solvent soaked materials   |       |       |       |            |       |
|                |      | according to local procedures to prevent   |       |       |       |            |       |
|                |      | pollution or spontaneous combustion.   |       |       |       |            |       |
|                |      |  |       |       |       |            |       |
|                |      | Starting at the front of stacker module #1, proceed  |       |       |       |            |       |
|                |      | toward feeder and around the machine to end up<br>and include the rear of stacker module #1. Then                  |       |       |       |            |       |
|                |      | proceed down the back of the stacker modules   |       |       |       |            |       |
|                |      | and around the front of the stacker modules to end   |       |       |       |            |       |
|                |      | at the front of stacker #2.  |       |       |       |            |       |
|                |      | 1 Check all holts (drive and letter transport) for   |       |       |       |            |       |
|                |      | <ol> <li>Check all belts (drive and letter transport) for<br/>indications of wear. Create work order to</li> </ol> |       |       |       |            |       |
|                |      | replace worn, deformed, split, or torn belts.  |       |       |       |            |       |
|                |      | <ol> <li>Check for broken or burred gate flags.</li> </ol>   |       |       |       |            |       |
|                |      | 3. Write work orders as needed for replacement   |       |       |       |            |       |
|                |      | of belts and/or gates.   |       |       |       |            |       |
|                |      | •  |       |       |       |            |       |
|                |      | 4. Check all rollers / sprockets (drive and idler)   |       |       |       |            |       |
|                |      | for proper adjustment and indications of wear and/or dirt buildup. Clean or replace rollers                        |       |       |       |            |       |
|                |      | as necessary.  |       |       |       |            |       |
|                |      | •  |       |       |       |            |       |
|                |      | 5. In the Reader Module, clean the motor power unit filter.  |       |       |       |            |       |
|                |      |  |       |       |       |            |       |
|                |      | 6. Create work orders as needed for  |       |       |       |            |       |
|                |      | adjustments, cleaning, and/or replacement of   |       |       |       |            |       |
|                |      | rollers.   |       |       |       |            |       |
| DBCS SYSTEM:   | 10   | Perform the following steps to ensure all areas  | 116   | 7     |       | 4400       | 1     |
| VACUUM/CLEAN 4 |      | of the machine not covered in previous tasks   |       | '     |       |            |       |
|                |      | are properly vacuumed and cleaned.   |       |       |       |            |       |
|                |      | WARNING  |       |       |       |            |       |
|                |      | Edges of spiral stacking auger may be  |       |       |       |            |       |
|                |      | sharp. Use extreme caution when  |       |       |       |            |       |
|                |      | working near spiral stacking auger.  |       |       |       |            |       |
|                |      | <u> </u>   |       |       | •     |            |       |

| U.S. Postal Service                             |      |  |       |   |   |   | I           | IDENTI | FICAT          | ION          |           |        |      |      |      |
|---|------|--|-------|---|---|---|-------------|--------|----------------|--------------|-----------|--------|------|------|------|
| Maintenance Checklist                           |      | RK<br>DE                                     |       |   |   |   | MENT<br>NYM |        |                |              | ASS<br>DE | N      | JMBE | ĒR   | TYPE |
|   | 0    | 3  | D     | В | С | S |             |        |                | С            | K         | 0      | 0    | 1    | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi | Equipment Model  DBCS Phase 3-5 with  LAUPH2 |       |   |   |   |             |        | n Filer<br>mm1 | name<br>9132 | 0         | ccurre |      | CBM  |      |
| Dort on House                                   |      |  | C4-4- |   |   |   |             |        | 1              | F-4          |           |        | T:   | امطم |      |

|           |  | LAUTTIZ   |       |          |       |           |       |
|-----------|--|---|-------|----------|-------|-----------|-------|
| Part or   | Item   | Task Statement and Instruction  | Est.  | Min.     |       | Threshold | s     |
| Component | No   | (Comply with all current safety precautions)                              | Time  | Skill    | Run   | Pieces    | Freq. |
| · ·       |  |   | Req   | Lev      | Hours | Fed       | '     |
|           |  |   | (min) |          |       | (000)     |       |
|           |  |   |       |          |       |           |       |
|           |  | WARNING   |       |          |       |           |       |
|           |  | <u> </u>  |       |          |       |           |       |
|           |  | Use extreme caution in area of pocket                                     |       |          |       |           |       |
|           |  | assembly wear plate. On some  |       |          |       |           |       |
|           |  | machines, wear plate extends past edge                                    |       |          |       |           |       |
|           |  | of its base and into stacker area,  |       |          |       |           |       |
|           |  | exposing sharp edges.   |       |          |       |           |       |
|           |  | WARNING   |       |          |       |           |       |
|           |  | Discoud colvent cooked metarials  |       |          |       |           |       |
|           |  | Discard solvent soaked materials according to local procedures to prevent |       |          |       |           |       |
|           |  | pollution or spontaneous combustion.                                      |       |          |       |           |       |
|           |  | polition of spontaneous combustion.                                       |       |          |       |           |       |
|           |  | NOTE  |       |          |       |           |       |
|           |  | While performing following tasks, do a                                    |       |          |       |           |       |
|           |  | visual check of wiring harnesses, cabling,                                |       |          |       |           |       |
|           |  | and connectors for wear, loose connections,                               |       |          |       |           |       |
|           |  | etc., and if any problems are found, write a                              |       |          |       |           |       |
|           |  | work order to do corrective maintenance.                                  |       |          |       |           |       |
|           |  | Open any additional doors including the                                   |       |          |       |           |       |
|           |  | plate cover assemblies (Wimpy panels) in                                  |       |          |       |           |       |
|           |  | order to perform the following cleaning steps:                            |       |          |       |           |       |
|           |  | σιομο.  |       |          |       |           |       |
|           |  | . Clean Feeder Module. Clean/vacuum all                                   |       |          |       |           |       |
|           |  | plates, covers, doors, framework, etc.,                                   |       |          |       |           |       |
|           |  | including the vibrator assembly. Verify                                   |       |          |       |           |       |
|           |  | vibrator motor power cord is not rubbing                                  |       |          |       |           |       |
|           |  | against frame.  |       |          |       |           |       |
|           |  | 2. Clean Transport Module.  |       |          |       |           |       |
|           |  | a. Clean all plates, covers, doors, and                                   |       |          |       |           |       |
|           |  | framework.  |       |          |       |           |       |
|           |  |   |       |          |       |           |       |
|           |  | b. Remove and clean the two filters located                               |       |          |       |           |       |
|           |  | in the knob of the air compressor, after                                  |       |          |       |           |       |
|           |  | cleaning reinstall.   |       |          |       |           |       |
|           |  | B. Reader Module - Clean/vacuum all plates,                               |       |          |       |           |       |
|           |  | covers, doors, and framework.   |       |          |       |           |       |
|           |  |   |       |          |       |           |       |
|           |  | CAUTION   |       |          |       |           |       |
|           |  | Extreme care should be taken that rules                                   |       |          |       |           |       |
|           |  | regarding electro-static-discharge (ESD)                                  |       |          |       |           |       |
|           |  | are strictly followed when handling all                                   |       |          |       |           |       |
|           |  | printed circuit boards, including those in                                |       |          |       |           |       |
|           | <u>.                                    </u> | primite chicara accuracy, meradaning medo m                               | ·     | <u> </u> | 1     | 1         | 1     |

| U.S. Postal Service                             |  |          |   |   |   |   |             | IDE | NTIF | CAT | ON           |           |       |      |     |      |
|---|--|----------|---|---|---|---|-------------|-----|------|-----|--------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           | WC<br>CO                                   | RK<br>DE |   |   |   |   | MENT<br>NYM |     |      |     |              | ASS<br>DE | N     | JMBE | R   | TYPE |
|   | 0  | 3        | D | В | С | S |             |     |      |     | C            | K         | 0     | 0    | 1   | M    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |          |   |   |   |   |             |     |      |     | name<br>9132 | C         | ccurr |      | СВМ |      |

| Component  | Part or I Item  |  |      |      |        |       |       |
|--|-----------------|--|------|------|--------|-------|-------|
| Iogic racks, system computers, etc. This includes the use of wrist straps and ESD pads.  |                 |  | Est. | Min. | D      |       |       |
| Iogic racks, system computers, etc. This includes the use of wrist straps and ESD pads.  | Component       | (Comply with all current salety precautions) |      |      |        |       | Freq. |
| includes the use of wrist straps and ESD pads.  4. Using the Dust Containment Unit (PSN 4460-06-000-8366) or an ESD compatible vacuum (eBuy #58656), clean/vacuum System Computer and WFOV Computer. Remove covers from System Computer and WFOV Processor and clean. Re-install covers.  5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: Vacuum/Clean top of Reader and Stacker Modules.  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels.  NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition. |                 |  |      |      | riours |       |       |
| includes the use of wrist straps and ESD pads.  4. Using the Dust Containment Unit (PSN 4460-06-000-8366) or an ESD compatible vacuum (eBuy #58656), clean/vacuum System Computer and WFOV Computer. Remove covers from System Computer and WFOV Processor and clean. Re-install covers.  5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: Vacuum/Clean top of Reader and Stacker Modules.  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels.  NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition. |                 |  |      |      |        | 1     | 1     |
| pads.  4. Using the Dust Containment Unit (PSN 4460-06-000-8366) or an ESD compatible vacuum (eBuy #58656), clean/vacuum System Computer and WFOV Computer. Remove covers from System Computer and WFOV Processor and clean. Re-install covers.  5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: Vacuum/Clean top of Reader and Stacker 23 7 Modules.  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels.  NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.                                     |                 |  |      |      |        |       |       |
| 4. Using the Dust Containment Unit (PSN 4460- 06-000-8366) or an ESD compatible vacuum (eBuy #58656), clean/vacuum System Computer and WFOV Computer. Remove covers from System Computer and WFOV Processor and clean. Re-install covers.  5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  DBCS SYSTEM: VACUUM/CLEAN  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels. SAFETY WARNING LABELS  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
| 06-00-8366) or an ESD compatible vacuum (eBuy #58656), clean/vacuum System Computer and WFOV Computer. Remove covers from System Computer and WFOV Processor and clean. Re-install covers.   5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.    DBCS SYSTEM: Vacuum/Clean top of Reader and Stacker Modules.   Vacuum/Clean top of Reader and Stacker Modules.   Vacuum/Clean top of Reader and Stacker Modules.   Verification of safety warning labels.   2 7 4400  |                 | pads.  |      |      |        |       |       |
| 06-00-8366) or an ESD compatible vacuum (eBuy #58656), clean/vacuum System Computer and WFOV Computer. Remove covers from System Computer and WFOV Processor and clean. Re-install covers.   5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.    DBCS SYSTEM: Vacuum/Clean top of Reader and Stacker Modules.   Vacuum/Clean top of Reader and Stacker Modules.   Vacuum/Clean top of Reader and Stacker Modules.   Verification of safety warning labels.   2 7 4400  |                 | 1 Using the Dust Containment Unit (PSN 4460  |      |      |        |       |       |
| (eBuy #58656), clean/vacuum System Computer and WFOV Computer. Remove covers from System Computer and WFOV Processor and clean. Re-install covers.  5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels. NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   |                 |  |      |      |        |       |       |
| Computer and WFOV Computer. Remove covers from System Computer and WFOV Processor and clean. Re-install covers.  5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  DBCS SYSTEM: SAFETY  WARNING LABELS  12. Verification of safety warning labels.  NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
| covers from System Computer and WFOV Processor and clean. Re-install covers.  5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels. NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   |                 |  |      |      |        |       |       |
| 5. Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels.  NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
| plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  11. Vacuum/Clean top of Reader and Stacker Modules.  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels. NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   |                 | Processor and clean. Re-install covers.      |      |      |        |       |       |
| plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  11. Vacuum/Clean top of Reader and Stacker Modules.  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels. NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   |                 | 5 Clean stacker modules Clean/vacuum all     |      |      |        |       |       |
| plate cover assemblies (Wimpy panels), stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels. NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   |                 |  |      |      |        |       |       |
| Stacker display panels back and front side.  DBCS SYSTEM: VACUUM/CLEAN  DBCS SYSTEM: Modules.  12. Verification of safety warning labels.  NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
| DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels. NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
| DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels.  NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   | DBCS SYSTEM: 11 | Vacuum/Clean top of Boader and Stocker       | 22   | 7    |        |       | N/I   |
| DBCS SYSTEM: SAFETY WARNING LABELS  12. Verification of safety warning labels. NOTE  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  | 23   | _ ′  |        |       | IVI   |
| SAFETY WARNING LABELS  Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
| Refer to the most recent MMO dealing with safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   |                 | Verification of safety warning labels.       | 2    | 7    |        | 4400  |       |
| safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   |                 | NOTE   |      |      |        |       |       |
| safety warning labels; currently, this is MMO-056-09, for label locations and part numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.   |                 | Refer to the most recent MMO dealing with    |      |      |        |       |       |
| numbers. MTSC>BULLETINS>Bulletins by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
| by Year  1. Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 | MMO-056-09, for label locations and part     |      |      |        |       |       |
| Verify feeder modules have safety warning labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
| labels present, correctly located, and in good condition.  |                 | by Year                                      |      |      |        |       |       |
| labels present, correctly located, and in good condition.  |                 | Verify feeder modules have safety warning    |      |      |        |       |       |
| condition.   |                 |  |      |      |        |       |       |
| 2 Verify steeker modules have asfaty warning   |                 |  |      |      |        |       |       |
|  |                 | 2 Verify stocker modules have sefety were in |      |      |        |       |       |
| 2. Verify stacker modules have safety warning  |                 | , ,  |      |      |        |       |       |
| labels present, correctly located, and in good condition.  |                 |  |      |      |        |       |       |
|  |                 |  |      |      |        |       |       |
| 3. Notify supervisor of missing or worn  |                 |  |      |      |        |       |       |
| feeder/stacker safety warning labels and   |                 |  |      |      |        |       |       |
| initiate a work order to replace or remove and   |                 |  |      |      |        |       |       |
| replace as necessary.  |                 | replace as necessary.                        |      |      |        |       |       |
| DBCS SYSTEM: 13. Clean and check for mail under machine. 58 7 57200  | DBCS SYSTEM: 13 | Clean and check for mail under machine.      | 58   | 7    |        | 57200 |       |
| LINDER MACHINE   |                 |  |      | '    |        | 0.200 |       |
| CLEAN/CHECK  1. Remove foam strips from back side of   | CLEAN/CHECK     |  |      |      |        |       |       |
| machine and outer side of Feeder and   |                 |  |      |      |        |       |       |
| Transport section.   |                 | Transport section.                           |      |      |        |       |       |
| 2. Using a flashlight, start at Transport and look   |                 |  |      |      |        |       |       |
| for mail pieces under machine, proceed to  |                 |  |      |      |        |       |       |
| check for mail to last stacker.  |                 |  |      | i    | İ      | 1     | 1     |

| U.S. Postal Service                             |  |          |   |   |   |   |             | IDEI | NTIFI        | CATI | ON          |           |        |      |     |      |
|---|--|----------|---|---|---|---|-------------|------|--------------|------|-------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           |  | RK<br>DE |   |   |   |   | MENT<br>NYM |      |              |      |             | ASS<br>DE | N      | UMBE | ER  | TYPE |
|   | 0  | 3        | D | В | С | S |             |      |              |      | C           | K         | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |          |   |   |   |   |             |      | ılletin<br>n |      | ame<br>9132 | 0         | ccurre |      | СВМ |      |

| Part or<br>Component  | Item<br>No | Task Statement and Instruction (Comply with all current safety precautions)   | Est.<br>Time | Min.<br>Skill | Run   | Thresholds<br>Pieces |       |  |  |  |  |
|---|------------|---|--------------|---------------|-------|----------------------|-------|--|--|--|--|
| Component   | 140        | (Comply with all current salety precautions)  | Req          | Lev           | Hours | Fed                  | Freq. |  |  |  |  |
|   |            |   | (min)        |               |       | (000)                |       |  |  |  |  |
|   |            | 3. Remove any mail pieces found.  |              |               |       |                      |       |  |  |  |  |
|   |            | <ol> <li>Follow local procedures for returning mail to<br/>Operations for processing.</li> </ol>  |              |               |       |                      |       |  |  |  |  |
|   |            | <ol> <li>Starting at the backside of the last stacker,<br/>work toward the Transport and Feeder<br/>sections cleaning and vacuuming any dust<br/>and debris found from under the machine.</li> </ol>  |              |               |       |                      |       |  |  |  |  |
|   |            | 6. Reinstall foam strips to backside of machine.  |              |               |       |                      |       |  |  |  |  |
| FEEDER MODULE   | 14.        | Check Feeder wear and items as follows:   | 1            | 9             |       | 173                  |       |  |  |  |  |
| HARDWARE  |            | 1. Teflon strip   |              |               |       |                      |       |  |  |  |  |
|   |            | 2. Rubber strippers   |              |               |       |                      |       |  |  |  |  |
|   |            | 3. Pick-off belts   |              |               |       |                      |       |  |  |  |  |
|   |            | Compensator levers  |              |               |       |                      |       |  |  |  |  |
|   |            | <ol> <li>Check for recommended gap setting of 5.</li> </ol>   |              |               |       |                      |       |  |  |  |  |
|   |            | 6. Generate a Work Order to replace as required. Refer to the most recent Maintenance Management Order, currently MMO-029-08, covering feeder alignment and performance adjustments.  MTSC>BULLETINS>Bulletins by Year  |              |               |       |                      |       |  |  |  |  |
| FEEDER MODULE:<br>ALIGNMENT<br>CHECK  | 15.        | Check Feeder alignment.  Check Feeder alignment (those steps that do not require power) using template, PSN 5220-04-000-5005, and in accordance with the most recent Maintenance Management Order, currently MMO-029-08, covering Feeder alignment and performance adjustments.  MTSC>BULLETINS>Bulletins by Year | 15           | 7             |       | 1100                 |       |  |  |  |  |
|   |            | NOTE  |              |               |       |                      |       |  |  |  |  |
| If any discrepancies are found, write a work order to do a full Feeder alignment in accordance with the most recent MMO, currently MMO-029-08, covering Feeder alignment and performance adjustments. |            |   |              |               |       |                      |       |  |  |  |  |
|   |            |   |              |               |       |                      |       |  |  |  |  |

| U.S. Postal Service                             |  |          |   |   |   |   |               | IDENTIF | ICAT | ION          |           |        |      |     |      |
|---|--|----------|---|---|---|---|---------------|---------|------|--------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           | WC   | RK<br>DE |   |   |   |   | PMENT<br>ONYM |         |      |              | ASS<br>DE | N      | UMBE | ĒR  | TYPE |
|   | 0  | 3        | D | В | О | S |               |         |      | С            | K         | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |          |   |   |   |   |               |         |      | name<br>9132 |           | Occurr |      | СВМ |      |

| Part or                     | Item | Task Statement and Instruction  | Est.         | Min.  |       | Thresholds   | ;     |
|-----------------------------|------|---|--------------|-------|-------|--------------|-------|
| Component                   | No   | (Comply with all current safety precautions)  | Time         | Skill | Run   | Pieces       | Freq. |
|                             |      |   | Req<br>(min) | Lev   | Hours | Fed<br>(000) |       |
|                             | l.   |   | ()           |       |       | (000)        |       |
| FEEDER MODULE:              | 16.  | Check Feeder transport for wear.  | 5            | 9     |       | 2200         |       |
| MAIL TRANSPORT<br>HARDWARE  |      | <ol> <li>Remove bottom feeder panel (clean). Check<br/>transport belt for splits, tears, and deformity.<br/>Check drive chain for stretch, sprockets for<br/>broken teeth and sprocket teeth wear. If<br/>chain needs lubrication, refer to DBCS<br/>maintenance handbook at completion of this<br/>route.</li> </ol> |              |       |       |              |       |
|                             |      | <ol><li>Check transport blade, transport blade<br/>mounting bracket, and sliding bearing block<br/>for loose bolts.</li></ol>   |              |       |       |              |       |
|                             |      | <ol> <li>Check transport blade assembly for bearing<br/>wear. Ensure transport assembly moves<br/>smoothly along guide rod.</li> </ol>  |              |       |       |              |       |
|                             |      | 4. Check pawl for wear.   |              |       |       |              |       |
| READER                      | 17.  | WFOV foam roller check.   | 1            | 9     |       | 4400         |       |
| MODULE: WFOV<br>FOAM ROLLER |      | Check WFOV foam roller in Reader module.<br>Replace roller if necessary.  |              |       |       |              |       |
| READER<br>MODULE:           | 18.  | Replace Encoder (Tachometer) Tube Coupler and Hose Clamp.   | 10           | 9     |       | 14300        |       |
| ENCODER<br>COUPLING         |      | <ol> <li>Remove and replace the Encoder Tube<br/>Coupler (PSN 4720-02-000-4060) and Hose<br/>Clamp (PSN 4730-01-336-5495) located on<br/>the Reader Module Plate.</li> </ol>  |              |       |       |              |       |
|                             |      | <ol> <li>If problems occur while doing these<br/>procedures notify your supervisor and if<br/>needed generate a work order to resolve<br/>those problems.</li> </ol>  |              |       |       |              |       |
| STACKER                     | 19.  | Clean/Vacuum power supplies.  | 21           | 9     |       | 4400         |       |
| MODULES:<br>POWER           |      | WARNING   |              |       |       |              |       |
| SUPPLIES                    |      | Use non-metallic ends on the vacuum while cleaning the power supplies.  |              |       |       |              |       |
|                             |      | <ol> <li>Remove each cover on stacker module<br/>5/24/42 VDC power supplies.</li> </ol>   |              |       |       |              |       |
|                             |      | <ol> <li>Verify power supply has two fuse blocks<br/>(MSB-022-98).</li> </ol>   |              |       |       |              |       |
|                             |      | Using an approved vacuum cleaner, clean   |              |       |       |              |       |

| U.S. Postal Service                             |  |            |   |   |   |   |             | IDEN | ITIFICA          | ΓΙΟΝ          |           |       |      |     |      |
|---|--|------------|---|---|---|---|-------------|------|------------------|---------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           |  | ORK<br>ODE |   |   |   |   | MENT<br>NYM |      |                  | _             | ASS<br>DE | 1     | NUMB | ER  | TYPE |
|   | 0  | 3          | D | В | О | S |             |      |                  | С             | K         | 0     | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |            |   |   |   |   |             |      | letin File<br>mm | name<br>19132 |           | Occur |      | СВМ |      |

| Part or       | Item | Task Statement and Instruction   | Est.         | Min.  |          | Thresholds   | 5        |
|---------------|------|--|--------------|-------|----------|--------------|----------|
| Component     | No   | (Comply with all current safety precautions)   | Time         | Skill | Run      | Pieces       | Freq.    |
|               |      |  | Req<br>(min) | Lev   | Hours    | Fed<br>(000) |          |
|               |      | inside of each power supply assembly.  | ,            |       |          | (333)        |          |
|               |      |  |              |       |          |              |          |
|               |      | 4. Replace covers.   |              |       |          |              |          |
| STACKER       | 20.  | Check the foam pads located on every guard   | 70           | 9     |          | 57200        |          |
| MODULES: FOAM | 20.  | finger of the Stacker Fence Assembly in each   | '            | 3     |          | 37200        |          |
| PADS          |      | stacker pocket area all tiers.   |              |       |          |              |          |
|               |      | NOTE   |              |       |          |              |          |
|               |      | For a location reference use MS-298,   |              |       |          |              |          |
|               |      | Vol. C, Figure 11-10, Tier 1 Fence   |              |       |          |              |          |
|               |      | Assembly, Index Number 38. This  |              |       |          |              |          |
|               |      | reference was valid as of the date of this   |              |       |          |              |          |
|               |      | writing, as always use the most recent documentation available.                        |              |       |          |              |          |
|               |      | 1. Check the foam pads (PSN 9320-03-000-   |              |       |          |              |          |
|               |      | 1. Check the foam pads (PSN 9320-03-000-<br>0023) to see if they are missing, damaged, |              |       |          |              |          |
|               |      | and/or degraded in any way.  |              |       |          |              |          |
|               |      | Make a list of the foam pads needing   |              |       |          |              |          |
|               |      | replacement and their locations.   |              |       |          |              |          |
|               |      | 3. Generate a Work Order to replace the foam   |              |       |          |              |          |
|               |      | pads found and recorded in Steps 1 and 2 of  |              |       |          |              |          |
|               |      | this instruction.  |              |       |          |              |          |
| DBCS SYSTEM:  | 21.  | Power Up DBCS system.  | 8            | 7     |          | 1            |          |
| POWER UP      |      | Power up preparation.  |              |       |          |              |          |
|               |      | a. Ensure tools and materials are removed  |              |       |          |              |          |
|               |      | from work area.  |              |       |          |              |          |
|               |      | b. Replace all machine panels.   |              |       |          |              |          |
|               |      | c. Close all machine doors and covers.   |              |       |          |              |          |
|               |      | WARNING  |              |       |          |              |          |
|               |      | Be cautious when working around or on  |              |       |          |              |          |
|               |      | equipment when power has been  |              |       |          |              |          |
|               |      | applied. Some of the following tasks   |              |       |          |              |          |
|               |      | require that the machine be running.  Take precautions to prevent hair,                |              |       |          |              |          |
|               |      | clothing, tools, and test equipment from   |              |       |          |              |          |
|               |      | being caught in moving parts.  |              |       |          |              |          |
|               |      | 2. Restore power to equipment as prescribed by   |              |       |          |              |          |
|               |      | current local procedure providing lockout/   |              |       |          |              |          |
|               |      | restore procedures. For detailed steps to  |              |       | <u> </u> | <u> </u>     | <u> </u> |

| U.S. Postal Service                             |     |          |                    |   |   |       |             | IDENTIFICAT   | TION           |           |        |      |     |      |
|---|-----|----------|--------------------|---|---|-------|-------------|---------------|----------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           |     | RK<br>DE |                    |   |   |       | MENT<br>NYM |               |                | ASS<br>DE | N      | UMBE | ĒR  | TYPE |
|   | 0   | 3        | D                  | В | С | S     |             |               | С              | K         | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equ | •        | nt Mo<br>CS F<br>L |   |   | 5 wit | h           | Bulletin File | ename<br>19132 |           | Occurr |      | СВМ |      |

|   |            | LAUPH2  |                              |                      |              |                             |       |
|---|------------|---|------------------------------|----------------------|--------------|-----------------------------|-------|
| Part or<br>Component                      | Item<br>No | Task Statement and Instruction (Comply with all current safety precautions)   | Est.<br>Time<br>Req<br>(min) | Min.<br>Skill<br>Lev | Run<br>Hours | Thresholds Pieces Fed (000) | Freq. |
|   |            | properly power up the system refer to MS Handbook MS-298, Volume B, Section 5.2.5. Also ensure all local lockout procedures are adhered to.   |                              |                      |              |                             |       |
| DBCS SYSTEM:<br>INTERLOCKS AND<br>E-STOPS | 22.        | Check all system interlocks and emergency stop switches.  WARNING  Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts. | 18                           | 7                    |              |                             | M     |
|   |            | NOTE  |                              |                      |              |                             |       |
|   |            | When performing this step, check only one interlock switch and one emergency stop switch with machine running. Check all other interlock and E-Stop switches while machine is stopped.  |                              |                      |              |                             |       |
|   |            | NOTE  |                              |                      |              |                             |       |
|   |            | This task requires two people. Time is doubled for staffing purposes. Verify light conditions and warning sounds for each E-Stop and interlock.   |                              |                      |              |                             |       |
|   |            | 1. Start machine. Verify that when START switch is pressed, start-up warning indicators around sorter flash amber. At same time, start-up warning horns sound. The horns sound for 5 seconds and go off, while warning indicators flash for a total of 10 seconds. Machine runs.                                  |                              |                      |              |                             |       |
|   |            | <ol> <li>Press EMERG STOP mushroom switch on<br/>feeder control panel assembly and note that<br/>following occurs:</li> </ol>   |                              |                      |              |                             |       |
|   |            | a. Machine stops immediately.   |                              |                      |              |                             |       |
|   |            | b. Lamp lights in EMERG STOP switch.  |                              |                      |              |                             |       |
|   |            | <ul> <li>Red EMERG STOP indicator lights on<br/>appropriate system control panel<br/>column.</li> </ul>   |                              |                      |              |                             |       |

| IVIIVIO-170-13                             |                       |      | Maintenance recrimed Support Sente  |                     |  |  |       |   |             |      |      |             |     |            | OCHICI |     |    |      |
|--|-----------------------|------|-------------------------------------|---------------------|--|--|-------|---|-------------|------|------|-------------|-----|------------|--------|-----|----|------|
| U.S. Postal Se                             | ervice                |      |                                     |                     |  |  |       |   |             | IDEI | NTIF | ICAT        | ION |            |        |     |    |      |
| Maintenance C                              | hecklis               | t    |                                     | RK<br>DE            |  |  |       |   | MENT<br>NYM |      |      |             | _   | ASS<br>ODE | N      | UMB | ER | TYPE |
|  | quinment Nemanelature |      |                                     |                     |  |  | С     | S |             |      |      |             | С   | K          | 0      | 0   | 1  | М    |
| Equipment Nomenclature<br>Delivery Bar Cod | er                    | Equi | •                                   | nt Mod<br>CS F<br>L |  |  | 5 wit | h | Bu          |      |      | ame<br>9132 | •   | Occur      |        | CBM | l  |      |
| Part or                                    | Item                  | ,    | Task Statement and Instruction Est. |                     |  |  |       |   |             |      |      | Min.        |     | Thr        | eshol  | ds  |    |      |

| Part or   | Item |    |                               | Task Statement and Instruction  | Est.                 | Min.         |              | Threshold              | S     |
|-----------|------|----|-------------------------------|---|----------------------|--------------|--------------|------------------------|-------|
| Component | No   |    | (Com                          | ply with all current safety precautions)  | Time<br>Req<br>(min) | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed<br>(000) | Freq. |
|           |      | d. |                               | ADY lamp goes out on system control nel.  |                      |              |              |                        |       |
|           |      | e. |                               | essing Start pushbutton does not start achine.  |                      |              |              |                        |       |
|           |      |    |                               | MERG STOP mushroom switch and at following occurs:  |                      |              |              |                        |       |
|           |      | a. |                               | stem READY lamp illuminates on stem control panel.  |                      |              |              |                        |       |
|           |      | b. | on                            | d EMERG STOP indicator goes out appropriate system control panel umn.   |                      |              |              |                        |       |
|           |      | C. |                               | mp goes out in module control panel<br>IERG STOP switch.  |                      |              |              |                        |       |
|           |      | d. | Ma                            | chine can now be started.   |                      |              |              |                        |       |
|           |      | e. | sw<br>ind<br>sai<br>soi<br>an | art machine. Verify that when START itch is pressed, start-up warning licators around sorter flash amber. At me time, start-up warning horns and. The horns sound for 5 seconds d go off, while warning indicators flash a total of 10 seconds. Machine runs. |                      |              |              |                        |       |
|           |      | f. |                               | en Reader Module front panel door<br>d note that the following occurs:  |                      |              |              |                        |       |
|           |      |    | 1)                            | Machine stops immediately.  |                      |              |              |                        |       |
|           |      |    | 2)                            | Red EMERG STOP indicator lights on appropriate system control panel column.   |                      |              |              |                        |       |
|           |      |    | 3)                            | READY lamp goes out on system control panel.  |                      |              |              |                        |       |
|           |      |    | 4)                            | Pressing Start pushbutton does not start machine.   |                      |              |              |                        |       |
|           |      | g. |                               | ose Reader Module front panel door<br>d note that the following occurs:   |                      |              |              |                        |       |
|           |      |    | 1)                            | System READY lamp illuminates on system control panel.  |                      |              |              |                        |       |
|           |      |    | 2)                            | Red EMERG STOP indicator goes out on appropriate system control panel column.   |                      |              |              |                        |       |

| U.S. Postal Service                             |  |          |   |   |   |   |             | IDE | NTIF | CATI | ON           |           |       |      |     |      |
|---|--|----------|---|---|---|---|-------------|-----|------|------|--------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           |  | RK<br>DE |   |   |   |   | MENT<br>NYM |     |      |      |              | ASS<br>DE | N     | JMBE | R   | TYPE |
|   | 0  | 3        | D | В | С | S |             |     |      |      | C            | K         | 0     | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |          |   |   |   |   |             |     |      |      | name<br>9132 | C         | ccurr |      | СВМ |      |

|                                     |            |  | LAUPH2  |   |                              |                      |              |                                      |       |
|-------------------------------------|------------|--|---|---|------------------------------|----------------------|--------------|--------------------------------------|-------|
| Part or<br>Component                | Item<br>No | ((   | Task Statement and Instruction<br>Comply with all current safety precaution   | ns)   | Est.<br>Time<br>Req<br>(min) | Min.<br>Skill<br>Lev | Run<br>Hours | Thresholds<br>Pieces<br>Fed<br>(000) | Freq. |
|                                     |            | <ul> <li>4. With all results switch cause and action above</li> <li>5. With interior do action occumitems close stack displayed top redead</li> </ul>  | Machine can now be started.  out starting and stopping machine emaining EMERG STOP mushrous ches one at time to ensure that each sees actions as described in items displayed above to occur when pressed ons described in items 3-a, b, and the tooccur when they are reset.  out starting and stopping machine locks one at a time, by opening bor, to ensure that each one caused on the starting and actions desired when opened and actions desired. When an interlock is activated when an interlock is activated and panel. Red full bin lights will ow of panel. When interlock is activated, lights will go out.   | ne, check<br>com<br>each one<br>is 2-b, c,<br>and<br>d c<br>ne, check<br>of panel<br>isses<br>above to<br>cribed in<br>door is<br>ed in<br>istacker<br>flash on | min)                         |                      |              | (000)                                |       |
| DBCS SYSTEM: PREDICTIVE MAINTENANCE | 23.        | Perform procedure  Be ca equip applie maching to present the moving while  | predictive maintenance tares.  WARNING  utious when working around ment when power has ed. This task requires that ine be running. Take precaute the precaute of the precaute | or on been at the utions tools, ight in   | 219                          | 9                    |              | 20000                                |       |
|                                     |            | vibration vibrat | te of any area where excon, noise, and/or heat are dete a work order to cover any ann hat requires additional investigate machine.  Shut down the DBCS System in accordance with the following re-  | tected.<br>otated<br>tion.  |                              |                      |              |                                      |       |

| U.S. Postal Service                             |      |  |   |   |   |   |                  | IDE | NTIF | ICATI | ON          |           |        |      |     |      |
|---|------|--|---|---|---|---|------------------|-----|------|-------|-------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           | CO   | RK<br>DE                                   |   |   |   |   | MEN <sup>*</sup> |     |      |       |             | ASS<br>DE | N      | JMBE | ĒR  | TYPE |
|   | 0    | 3  | D | В | C | S |                  |     |      |       | C           | K         | 0      | 0    | 1   | M    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi | Equipment Model DBCS Phase 3-5 with LAUPH2 |   |   |   |   |                  |     |      | Filen | ame<br>9132 | О         | ccurre |      | СВМ |      |
|   |      |  |   |   |   |   |                  |     |      |       |             |           |        |      |     |      |

|           |      | LAUPH2  |                      |              |              |                        |       |
|-----------|------|---|----------------------|--------------|--------------|------------------------|-------|
| Part or   | Item | Task Statement and Instruction  | Est.                 | Min.         |              | Thresholds             | s     |
| Component | No   | (Comply with all current safety precautions)  | Time<br>Req<br>(min) | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed<br>(000) | Freq. |
|           |      | For detailed steps to properly shut<br>down the system refer to MS<br>Handbook MS-298 Volume B,<br>Section 5.2.4.   |                      |              |              |                        |       |
|           |      | <ol> <li>Power down the machine as<br/>prescribed by the current local<br/>lockout instruction providing<br/>lockout/restore procedures.</li> </ol>   |                      |              |              |                        |       |
|           |      | <ul> <li>b. Open covers and then remove panels.         Open all machine doors including Main AC Power Panel, Feeder Distribution Panel, and Motor Distribution Panel.         Open or remove all machine panels, this includes diverter plate cover assemblies (Wimpy panels). Override interlock switches. Rear Main Power Unit must by-pass magnetic contacts for DBCS to run.     </li> </ul> |                      |              |              |                        |       |
|           |      | WARNING   |                      |              |              |                        |       |
|           |      | Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.  |                      |              |              |                        |       |
|           |      | NOTE  |                      |              |              |                        |       |
|           |      | Rear Main Power Unit must by-pass the magnetic contacts for DBCS to run.  |                      |              |              |                        |       |
|           |      | <ul> <li>Restore power to equipment as<br/>prescribed by the current local<br/>procedure providing lockout/restore<br/>procedures.</li> </ul>   |                      |              |              |                        |       |
|           |      | d. Start the DBCS machine.  |                      |              |              |                        |       |
|           |      | NOTE  |                      |              |              |                        |       |
|           |      | Machine must have been running for a minimum of 15 minutes prior to doing the ultrasonic and infrared scans.  |                      |              |              |                        |       |
|           |      | 2. Ultrasonic scans.  |                      |              |              |                        |       |

| U.S. Postal Service                             |  |          |   |   |   |   |             | IDENTIFI      | CAT | ION          |   |        |      |     |      |
|---|--|----------|---|---|---|---|-------------|---------------|-----|--------------|---|--------|------|-----|------|
| Maintenance Checklist                           |  | RK<br>DE |   |   |   |   | MENT<br>NYM |               |     | CLA<br>CO    |   | N      | UMBE | ĒR  | TYPE |
|   | 0  | 3        | D | В | О | S |             |               |     | С            | K | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |          |   |   |   |   |             | Bulletin<br>n |     | name<br>9132 | ( | Occurr |      | СВМ |      |

| ·            |          | LAUPH2  |                      |              |              |                        |       |
|--------------|----------|---|----------------------|--------------|--------------|------------------------|-------|
| Part or Item |          | Task Statement and Instruction  | Est.                 | Min.         |              | Thresholds             | 8     |
| Component No | (1       | Comply with all current safety precautions)   | Time<br>Req<br>(min) | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed<br>(000) | Freq. |
|              |          | NOTE  |                      |              |              |                        |       |
|              |          | ne Long Range Module (cone) on the<br>Probe when doing the ultrasonic   |                      |              |              |                        |       |
|              | a.       | Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Feeder, for excessive vibration and noise.                       |                      |              |              |                        |       |
|              |          | Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Transport, for excessive vibration and noise.                    |                      |              |              |                        |       |
|              |          | Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Reader module, for excessive vibration and noise.                |                      |              |              |                        |       |
|              | d.       | Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Motor Power Distribution, for excessive vibration and noise.         |                      |              |              |                        |       |
|              | e.       | Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Tiers 1-4 of the Stacker modules, for excessive vibration and noise. |                      |              |              |                        |       |
|              | 3. Infra | red scans.  |                      |              |              |                        |       |
|              | a.       | Use non-contact infrared to scan Main Power Unit front and rear (magnetic interlock on panel), scan all terminal connections and connector plugs. |                      |              |              |                        |       |
|              | b.       | Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Feeder for abnormal temperature.                 |                      |              |              |                        |       |
|              |          | Use non-contact infrared to monitor all terminal connections and connection plugs in the Feeder Distribution Panel for abnormal temperature.      |                      |              |              |                        |       |
|              | d.       | Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Transport for abnormal temperature.              |                      |              |              |                        |       |

|      |                                |      |                                     |   |  |  |   |   |   |  |   | _  |                |  |
|------|--------------------------------|------|-------------------------------------|---|--|--|---|---|---|--|---|--|----------------|--|
|      |                                |      |                                     |   |  |  | IDEN <sup>-</sup>   | ΓIFICA  | ΓΙΟΝ  |  |   |  |                |  |
|      |                                |      |                                     |   |  |  |   |   |   |  | N   | UMBE   | ΞR             | TYPE   |
| 0    | 3                              | D    | В                                   | C   | S  |  |   |   | С   | K  | 0   | 0  | 1              | М  |
| Equi | •                              | CS F | Phas                                |   | 5 wit  | h  | Bulle   |   |   |  | Occurr  |  | CBM            |  |
|      |                                |      |                                     |   |  |  |   |   |   |  |   |  |                |  |
|      | Task Statement and Instruction |      |                                     |   |  |  |   |   | Est.  | Min.   |   | Thre   | sholo          | ls   |
|      | CO<br>0<br>Equi                | Task | CODE  0 3 D  Equipment Mod DBCS F L | CODE  0 3 D B  Equipment Model DBCS Phas LAUF | CODE  0 3 D B C  Equipment Model DBCS Phase 3-LAUPH2  Task Statement and I | CODE ACRO  0 3 D B C S  Equipment Model DBCS Phase 3-5 wit LAUPH2  Task Statement and Instruct | CODE ACRONYM  O 3 D B C S  Equipment Model DBCS Phase 3-5 with LAUPH2  Task Statement and Instruction | WORK EQUIPMENT ACRONYM  0 3 D B C S  Equipment Model DBCS Phase 3-5 with LAUPH2  Task Statement and Instruction | WORK EQUIPMENT ACRONYM  0 3 D B C S Bulletin File  DBCS Phase 3-5 with LAUPH2  Task Statement and Instruction | CODE ACRONYM COME TO SERVICE TO S | WORK CODE ACRONYM CODE  0 3 D B C S C K  Equipment Model DBCS Phase 3-5 with LAUPH2  Task Statement and Instruction Est. Min. | WORK CODE ACRONYM CODE OF ACRO | IDENTIFICATION | WORK CODE ACRONYM CODE ODE ODE ODE ODE ODE ODE ODE ODE ODE |

|           |      |    |     |  |             |              | Run Pieces F<br>Hours Fed |       |       |
|-----------|------|----|-----|--|-------------|--------------|---------------------------|-------|-------|
| Part or   | Item |    |     | Task Statement and Instruction   | Est.        | Min.         |                           |       |       |
| Component | No   |    |     | (Comply with all current safety precautions)   | Time<br>Req | Skill<br>Lev |                           |       | Freq. |
|           |      |    |     |  | (min)       | Lev          | TIOUIS                    | (000) |       |
|           |      |    | e.  | Use non-contact infrared to monitor all terminal connections and connection plugs in Reader module for abnormal temperature.                         |             |              |                           |       |       |
|           |      |    | f.  | Use non-contact infrared to monitor all terminal connections and connector plugs in the Motor Distribution Panel for abnormal temperature.           |             |              |                           |       |       |
|           |      |    | g.  | Use non-contact infrared to monitor all terminal connections and connector plugs in the Stacker Modules, Tiers 1-4 for abnormal temperature.         |             |              |                           |       |       |
|           |      | 4. | Res | store equipment to ready status.   |             |              |                           |       |       |
|           |      |    | a.  | Shut down the DBCS System in accordance with the following reference:  |             |              |                           |       |       |
|           |      |    |     | <ol> <li>For detailed steps to properly shut<br/>down the system refer to MS<br/>Handbook, MS-298, Volume B,<br/>Section 5.2.4.</li> </ol>           |             |              |                           |       |       |
|           |      |    |     | <ol> <li>Power down the machine as<br/>prescribed by the current local<br/>lockout instruction providing<br/>lockout/restore procedures.</li> </ol>  |             |              |                           |       |       |
|           |      |    | b.  | Replace all panels and doors. Ensure tools and materials are removed from work area. Replace all machine panels. Close all machine doors and covers. |             |              |                           |       |       |
|           |      |    |     | WARNING  |             |              |                           |       |       |
|           |      |    |     |  |             |              |                           |       |       |
|           |      |    | C.  | Restore power to equipment as prescribed by the current local procedure providing lockout/restore procedures.  |             |              |                           |       |       |
|           |      |    | d.  | Power on computer systems using current local computer restore procedures.   |             |              |                           |       |       |

| U.S. Postal Service                             |              |  |   |   |   |   |               | IDENTIF | ICAT | ION          |           |        |      |     |      |
|---|--------------|--|---|---|---|---|---------------|---------|------|--------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           | WORK<br>CODE |  |   |   |   |   | PMENT<br>ONYM |         |      |              | ASS<br>DE | N      | UMBE | ĒR  | TYPE |
|   | 0            | 3  | D | В | О | S |               |         |      | С            | K         | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equ          | Equipment Model DBCS Phase 3-5 with LAUPH2 |   |   |   |   |               |         |      | name<br>9132 |           | Occurr |      | СВМ |      |

| Part or                   | Itam       | Task Statement and Instruction   | Est.  | Min.  |       | Thresholds |        |
|---------------------------|------------|--|-------|-------|-------|------------|--------|
| Component                 | Item<br>No | (Comply with all current safety precautions)   | Time  | Skill | Run   | Pieces     | Frea.  |
|                           |            | (**************************************  | Req   | Lev   | Hours | Fed        | 1 104. |
|                           |            |  | (min) |       |       | (000)      |        |
| FEEDER MODULE:            | 24.        | Check Feeder alignment.  | 15    | 7     |       | 1100       |        |
| ALIGNMENT                 |            |  | 10    |       |       | 1100       |        |
| CHECK                     |            | WARNING  |       |       |       |            |        |
|                           |            | Po cautious when working around or on  |       |       |       |            |        |
|                           |            | Be cautious when working around or on equipment when power has been                  |       |       |       |            |        |
|                           |            | applied.   |       |       |       |            |        |
|                           |            |  |       |       |       |            |        |
|                           |            | Check Feeder alignment (Power On steps) using template, PSN 5220-04-000-5005, and in |       |       |       |            |        |
|                           |            | accordance with most recent MMO, currently   |       |       |       |            |        |
|                           |            | MMO-029-08, covering feeder alignment and  |       |       |       |            |        |
|                           |            | performance adjustments.   |       |       |       |            |        |
|                           |            | NOTE   |       |       |       |            |        |
|                           |            | If any discrepancies are found, write a work   |       |       |       |            |        |
|                           |            | order to do a full feeder alignment in   |       |       |       |            |        |
|                           |            | accordance with the most recent MMO,   |       |       |       |            |        |
|                           |            | currently MMO-029-08, covering feeder alignment and performance adjustments.         |       |       |       |            |        |
|                           |            | MTSC>BULLETINS>Bulletins by Year   |       |       |       |            |        |
|                           |            |  |       |       |       |            |        |
| TRANSPORT                 |            | ID Tag Reader System electrical enclosure  | 10    | 10    |       | 4400       |        |
| MODULE: ICS<br>ELECTRICAL |            | inspection.  |       |       |       |            |        |
| ENCLOSURE                 |            | WARNING  |       |       |       |            |        |
|                           |            | Be cautious when working around or on  |       |       |       |            |        |
|                           |            | equipment when power has been  |       |       |       |            |        |
|                           |            | applied.   |       |       |       |            |        |
|                           |            | Use the most recent MMO covering ICS ID Tag  |       |       |       |            |        |
|                           |            | reader system electrical enclosure inspection to                                     |       |       |       |            |        |
|                           |            | perform procedures on ICS reader in order to   |       |       |       |            |        |
|                           |            | locate enclosures with defective power supplies,                                     |       |       |       |            |        |
|                           |            | switches not configured properly, incorrect lamps, and lamps not installed properly. |       |       |       |            |        |
|                           |            | MTSC>BULLETINS>Bulletins by Year   |       |       |       |            |        |
|                           |            | ·  |       |       |       |            |        |
| READER                    |            | Perform the following on the WFOV Read Head  | 8     | 10    |       | 4400       |        |
| MODULE: WFOV<br>ALIGNMENT |            | Assembly on the DBCS.  |       |       |       |            |        |
| ALIGINIVIENT              |            | WARNING  |       |       |       |            |        |
|                           |            | Be cautious when working around or on  |       |       |       |            |        |
|                           |            | equipment when power has been  |       |       |       |            |        |
|                           |            | applied.   |       |       |       |            |        |
|                           |            |  |       |       |       |            |        |

| U.S. Postal Service                             |  |            |   |   |   |   |             | IDEN | ITIFICA          | ΓΙΟΝ          |           |       |      |     |      |
|---|--|------------|---|---|---|---|-------------|------|------------------|---------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           |  | ORK<br>ODE |   |   |   |   | MENT<br>NYM |      |                  | _             | ASS<br>DE | 1     | NUMB | ER  | TYPE |
|   | 0  | 3          | D | В | О | S |             |      |                  | С             | K         | 0     | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |            |   |   |   |   |             |      | letin File<br>mm | name<br>19132 |           | Occur |      | СВМ |      |

| _                                      |      |  |             |               |              |               |       |
|--|------|--|-------------|---------------|--------------|---------------|-------|
| Part or                                | Item | Task Statement and Instruction   | Est.        | Min.<br>Skill |              | Thresholds    |       |
| Component                              | No   | (Comply with all current safety precautions)   | Time<br>Req | Lev           | Run<br>Hours | Pieces<br>Fed | Freq. |
|  |      |  | (min)       |               | riouro       | (000)         |       |
|  |      | <ol> <li>The WFOV Read Head Assembly (RHA) is position-mounted on a spacer plate. On the DBCS, DIOSS, and CIOSS the spacer plate is secured to a mounting plate. Ensure the spacer plate is properly aligned in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.1.</li> <li>Perform the WFOV Installation Alignment in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.2.1.</li> <li>If any problems arise necessitating corrective actions, write a work order to document the</li> </ol> | (11111)     |               |              |               |       |
|  |      | time and events associated with those problems.  |             |               |              |               |       |
| READER<br>MODULE: POWER<br>SUPPLY      |      | WARNING  Be cautious when working around or on equipment when power has been applied.  1. Open Reader lower left door.  2. Place multimeter leads with clips on connectors J14 and J15 of Reader card cage backplane.  3. A reading of 5.0 to 5.1 VDC should be present, if not the power supply should be replaced because it is out of specification.  4. Close door.  5. If power supply needs to be replaced, notifiy supervisor of the out of specification power supply and initiate a work order to replace the power supply.   | 5           | 9             |              | 14300         |       |
| STACKER<br>MODULES: BIN<br>SWITCH TEST | 28.  | WARNING  Be cautious when working around or on equipment when power has been applied.  | 7           | 7             |              | 1100          |       |

| U.S. Postal Service                             |          |  |   |   |   |   |             | IDE | NTIF | CAT | ON           |           |       |      |     |      |
|---|----------|--|---|---|---|---|-------------|-----|------|-----|--------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           | WC<br>CO | RK<br>DE                                   |   |   |   |   | MENT<br>NYM |     |      |     |              | ASS<br>DE | N     | JMBE | R   | TYPE |
|   | 0        | 3  | D | В | С | S |             |     |      |     | C            | K         | 0     | 0    | 1   | M    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi     | Equipment Model DBCS Phase 3-5 with LAUPH2 |   |   |   |   |             |     |      |     | name<br>9132 | C         | ccurr |      | СВМ |      |

| Part or                              | Item | Task Statement and Instruction  | Est.        | Min.         |              | Thresholds    | 3     |
|--------------------------------------|------|---|-------------|--------------|--------------|---------------|-------|
| Component                            | No   | (Comply with all current safety precautions)  | Time<br>Req | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed | Freq. |
|                                      |      |   | (min)       |              |              | (000)         |       |
|                                      |      | <ol> <li>Pull each stacker blade to its 3/4 full position<br/>and note that its associated red indicator on<br/>stacker module display panel flashes and<br/>stacker module horn beeps. Note defective</li> </ol> |             |              |              |               |       |
|                                      |      | stacker switches.  2. Pull each stacker blade to its full position and note that its associated red indicator on stacker module display panel is illuminated and stacker module horn beeps. Note                  |             |              |              |               |       |
|                                      |      | defective stacker switches.  3. Verify stacker blade rides smoothly on the guide rod.   |             |              |              |               |       |
|                                      |      | <ol> <li>Notify supervisor of defective stacker<br/>switches and/or blades and initiate a work<br/>order to repair or replace as necessary.</li> </ol>  |             |              |              |               |       |
| STACKER<br>MODULES:<br>POWER SUPPLY  | 29.  | Power supply adjust PS1 - 5 volts (stackers).  WARNING  | 14          | 9            |              | 14300         |       |
|                                      |      | Be cautious when working around or on equipment when power has been applied.  |             |              |              |               |       |
|                                      |      | <ol> <li>Place multimeter leads with clips on<br/>connectors J10 and J11 of the stacker<br/>backplane.</li> </ol>   |             |              |              |               |       |
|                                      |      | <ol> <li>A reading of 5.1 VDC should be present, if<br/>not adjust the power supply potentiometer to<br/>obtain a reading of +5.0 VDC<br/>(+0.1/-0.0 VDC).</li> </ol>   |             |              |              |               |       |
| STACKER<br>MODULES: GATE<br>SOLENOID | 30.  | Gate and solenoid pusher assembly test.  WARNING  | 20          | 9            |              | 14300         |       |
| PUSHERS                              |      | Be cautious when working around or on equipment when power has been applied.  |             |              |              |               |       |
|                                      |      | NOTE  |             |              |              |               |       |
|                                      |      | Gate and pusher solenoid testing should be performed from the Stacker Integrated Solenoid Driver Assembly (S-ISDA). The S-ISDA is comprised of 1 P-TC08 (power and machine interface) and 4 P-TSD08               |             |              |              |               |       |

| U.S. Postal Service                             |  |             |  |  |  |  |                  |  |  | ICATI        | ON          |           |       |      |     |      |
|---|--|-------------|--|--|--|--|------------------|--|--|--------------|-------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           | CO   | RK<br>DE    |  |  |  |  | MEN <sup>*</sup> |  |  |              |             | ASS<br>DE | Ν     | UMBE | ΞR  | TYPE |
|   | 0  | 0 3 D B C S |  |  |  |  |                  |  |  |              | C           | K         | 0     | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |             |  |  |  |  |                  |  |  | Filen<br>nm1 | ame<br>9132 | C         | ccurr |      | СВМ |      |

|           |      |                   | LAUTIE   |              |       |       |              |       |
|-----------|------|-------------------|--|--------------|-------|-------|--------------|-------|
| Part or   | Item |                   | Task Statement and Instruction   | Est.         | Min.  |       | Thresholds   | s     |
| Component | No   |                   | (Comply with all current safety precautions)   | Time         | Skill | Run   | Pieces       | Freq. |
|           |      |                   |  | Req<br>(min) | Lev   | Hours | Fed<br>(000) |       |
|           |      | / _1. !-          | ran maaduda) aimauit   | _ \·''''/    | l     |       | (000)        |       |
|           |      | `                 | rer module) circuit cards. Each<br>SD08 contains a built in test function            |              |       |       |              |       |
|           |      |                   | is user activated.   |              |       |       |              |       |
|           |      | 1. O <sub>I</sub> | pen the rear doors on the selected Stacker   |              |       |       |              |       |
|           |      |                   | odule to be tested.  |              |       |       |              |       |
|           |      |                   | wer the S-ISDA to gain access to the test  |              |       |       |              |       |
|           |      |                   | sh buttons.  |              |       |       |              |       |
|           |      | •                 | NOTE   |              |       |       |              |       |
|           |      | ldor              | tify vigually inaparative colonaid pusher  |              |       |       |              |       |
|           |      |                   | tify visually inoperative solenoid pusher emblies and gates by monitoring each       |              |       |       |              |       |
|           |      |                   | ker module one by one.   |              |       |       |              |       |
|           |      | 3. Oı             | ne tier on each stacker module will be   |              |       |       |              |       |
|           |      |                   | sted at a time, energizing every gate and  |              |       |       |              |       |
|           |      | so                | lenoid pusher assembly sequentially,   |              |       |       |              |       |
|           |      |                   | peatedly. By pushing the corresponding   |              |       |       |              |       |
|           |      |                   | st button on a P-TSD08 circuit board, the cuit board will perform a built in test to |              |       |       |              |       |
|           |      |                   | ggle each gate and pusher solenoid 14  |              |       |       |              |       |
|           |      | tin               | nes sequentially and will repeat for a total of                                      |              |       |       |              |       |
|           |      |                   | cycles. The testing will be identical for each                                       |              |       |       |              |       |
|           |      | St                | acker module.  |              |       |       |              |       |
|           |      |                   | NOTE   |              |       |       |              |       |
|           |      |                   | hing the test button while a test cycle is   |              |       |       |              |       |
|           |      | acti              | ve will end the test cycle.  |              |       |       |              |       |
|           |      | a.                | Push the test button on the Tier 1   |              |       |       |              |       |
|           |      |                   | P-TSD08 circuit board. All LEDs on the   |              |       |       |              |       |
|           |      |                   | board will illuminate for approximately 3 seconds and then all will cycle on and off |              |       |       |              |       |
|           |      |                   | for approximately 4 seconds except for   |              |       |       |              |       |
|           |      |                   | LED DS101 which is the power indicator   |              |       |       |              |       |
|           |      |                   | for the board.   |              |       |       |              |       |
|           |      | b.                | The P-TSD08 will test each gate and  |              |       |       |              |       |
|           |      |                   | pusher solenoid on the selected tier in  |              |       |       |              |       |
|           |      |                   | the following order:   |              |       |       |              |       |
|           |      |                   | Gate 1   |              |       |       |              |       |
|           |      |                   | <ul> <li>DS201 – Gate activation</li> </ul>  |              |       |       |              |       |
|           |      |                   | <ul> <li>DS202 – Gate power</li> </ul>   |              |       |       |              |       |
|           |      |                   | Pusher Solenoid 1  |              |       |       |              |       |
|           |      |                   | <ul> <li>DS301 –Pusher activation</li> </ul>   |              |       |       |              |       |
|           |      |                   | - DOGGE F GOTTOT GOTT GUTT   |              |       |       |              |       |

| CODE   ACRONYM   CODE   CODE | U.S. Postal Service   |     | IDENTIFICATION |   |   |   |   |  |  |  |  |   |   |        |      |     |      |
|--|-----------------------|-----|----------------|---|---|---|---|--|--|--|--|---|---|--------|------|-----|------|
| Equipment Nomenclature Equipment Model Bulletin Filename Occurrence Delivery Bar Code Sorter DBCS Phase 3-5 with mm19132 ECBM  | Maintenance Checklist |     |                |   |   |   |   |  |  |  |  |   |   | N      | JMBE | ĒR  | TYPE |
| Delivery Bar Code Sorter DBCS Phase 3-5 with mm19132 ECBM  |                       | 0   | 3              | D | В | O | S |  |  |  |  | С | K | 0      | 0    | 1   | М    |
| LAUPH2   | • •                   | Equ |                |   |   |   |   |  |  |  |  |   | ( | Occurr |      | СВМ |      |

|           |      | LAUPH2  |             |              |              |               |       |
|-----------|------|---|-------------|--------------|--------------|---------------|-------|
| Part or   | Item | Task Statement and Instruction  | Est.        | Min.         |              | Thresholds    | 3     |
| Component | No   | (Comply with all current safety precautions)  | Time<br>Req | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed | Freq. |
|           |      |   | (min)       |              |              | (000)         |       |
|           |      | DS302 – Pusher power  |             |              |              |               |       |
|           |      | Gate 2  |             |              |              |               |       |
|           |      | <ul> <li>DS203 – Gate activation</li> </ul>   |             |              |              |               |       |
|           |      | <ul> <li>DS204 – Gate power</li> </ul>  |             |              |              |               |       |
|           |      | Pusher Solenoid 2   |             |              |              |               |       |
|           |      | <ul> <li>DS303 – Pusher activation</li> </ul>   |             |              |              |               |       |
|           |      | DS304 – Pusher power  |             |              |              |               |       |
|           |      | Gate 3  |             |              |              |               |       |
|           |      | <ul> <li>DS205 – Gate activation</li> </ul>   |             |              |              |               |       |
|           |      | <ul> <li>DS206 – Gate power</li> </ul>  |             |              |              |               |       |
|           |      | Pusher Solenoid 3   |             |              |              |               |       |
|           |      | <ul> <li>DS305 – Pusher activation</li> </ul>   |             |              |              |               |       |
|           |      | <ul> <li>DS306 – Pusher power</li> </ul>  |             |              |              |               |       |
|           |      | • Gate 4  |             |              |              |               |       |
|           |      | DS207 – Gate activation   |             |              |              |               |       |
|           |      | DS208 – Gate power  |             |              |              |               |       |
|           |      | Pusher Solenoid 4   |             |              |              |               |       |
|           |      | <ul> <li>DS307 – Pusher activation</li> </ul>   |             |              |              |               |       |
|           |      | <ul> <li>DS308 – Pusher power</li> </ul>  |             |              |              |               |       |
|           |      | As each gate or pusher solenoid is being tested, the P-TSD08 will toggle each one 15 times with 2 rapid toggles in the middle. The whole test will cycle 3 times which will take approximately 2 minutes to complete.                                 |             |              |              |               |       |
|           |      | <ul> <li>Repeat sub-steps 3a and 3b until each<br/>tier in the selected Stacker module has<br/>been tested.</li> </ul>  |             |              |              |               |       |
|           |      | 4. If the red status led (DS102 comes on when a<br>gate or pusher is being tested it is an<br>indication there is a fault with the particular<br>gate or pusher that was being tested at that<br>time. The fault could be in one of the<br>following: |             |              |              |               |       |

| U.S. Postal Service                             | IDENTIFICATION |          |                    |  |  |       |                         |   |              |  |             |   |        |      |     |      |
|---|----------------|----------|--------------------|--|--|-------|-------------------------|---|--------------|--|-------------|---|--------|------|-----|------|
| Maintenance Checklist                           | CO             | RK<br>DE |                    |  |  |       | MEN <sup>-</sup><br>NYM |   |              |  | CLA<br>CO   |   | N      | JMBE | ΞR  | TYPE |
|   | 0              | 3        | D B C S            |  |  |       |                         |   |              |  | O           | K | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi           |          | t Mod<br>CS F<br>L |  |  | 5 wit | h                       | В | ulletin<br>r |  | ame<br>9132 | О | ccurre |      | СВМ |      |

|                       | _    | LAOTTIZ  |                      |  |              |               |       |
|-----------------------|------|--|----------------------|--|--------------|---------------|-------|
| Part or               | Item | Task Statement and Instruction   | Est.                 | Min.   |              | Thresholds    |       |
| Component             | No   | (Comply with all current safety precautions)   | Time<br>Req<br>(min) | Skill<br>Lev                                   | Run<br>Hours | Pieces<br>Fed | Freq. |
|                       |      | T  | (111111)             | <u>                                       </u> | !            | (000)         | 1     |
|                       |      | The gate or pusher   |                      |  |              |               |       |
|                       |      | <ul> <li>The gate or pusher under deck harness assembly</li> </ul>   |                      |  |              |               |       |
|                       |      | <ul> <li>The gate or pusher cable assembly</li> </ul>  |                      |  |              |               |       |
|                       |      | <ul> <li>The P–TSD08 circuit board.</li> </ul>   |                      |  |              |               |       |
|                       |      | Note which gate or pusher caused the P-TSD08 to indicate an error status and submit a work order for repairs to be made.   |                      |  |              |               |       |
|                       |      | 5. Raise S- ISDA into upright position.  |                      |  |              |               |       |
|                       |      | 6. Close Stacker module rear doors.  |                      |  |              |               |       |
|                       |      | <ol><li>Repeat testing for next Stacker module until<br/>all have been tested.</li></ol>   |                      |  |              |               |       |
| DBCS<br>VALIDATION:   |      | Perform the mail path validation by checking basic machine functions as follows:   | 4                    | 9  |              | 3             |       |
| MACHINE<br>VALIDATION |      | WARNING  |                      |  |              |               |       |
|                       |      | Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.   |                      |  |              |               |       |
|                       |      | <ol> <li>Turn Maintenance Mode key switch on operator control panel to MAINT position.</li> </ol>  |                      |  |              |               |       |
|                       |      | <ol> <li>Start machine. Verify when START switch is<br/>pressed, start-up warning indicators around<br/>sorter flash amber. At same time, start-up<br/>warning horns sound. Horns sound for 5<br/>seconds and go off, while warning indicators<br/>continue to flash for a total of 10 seconds.</li> </ol> |                      |  |              |               |       |
|                       |      | 3. Do a visual and audible check of machine to verify there are no problems with belt tracking, bearing noise, inappropriate bin gate activity, or any indications of impending or existing machine problems.  |                      |  |              |               |       |
|                       |      | <ol> <li>Proceed to end stacker and press Emergency<br/>Stop button. Verify machine stops.</li> </ol>  |                      |  |              |               |       |
|                       |      | <ol><li>If machine fails to stop, notify supervisor.<br/>Refer to the most recent Maintenance</li></ol>  |                      |  |              |               |       |

| U.S. Postal Service                             |  |                            |  |  | IDENTIFICATION |  |  |  |  |   |              |           |       |      |     |      |
|---|--|----------------------------|--|--|----------------|--|--|--|--|---|--------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           |  | VORK EQUIPME<br>CODE ACRON |  |  |                |  |  |  |  |   |              | ASS<br>DE | N     | JMBE | R   | TYPE |
|   | 0 3 D B C S                                |                            |  |  |                |  |  |  |  | C | K            | 0         | 0     | 1    | M   |      |
| Equipment Nomenclature Delivery Bar Code Sorter | Equipment Model DBCS Phase 3-5 with LAUPH2 |                            |  |  |                |  |  |  |  |   | name<br>9132 | C         | ccurr |      | СВМ |      |

| Part or Component No (Comply with all current safety precautions)  Management Order, currently MMO-002-03, concerning failure to stop.  MTSC>BULLETINS>Bulletins by Year  6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel.  DBCS VALIDATION: LABEL PRINTER  Min. Skill Run Pieces Fed (000)  Threshold Run Pieces Fed (000)  Round Pieces Fed (000)  Wanagement Order, currently MMO-002-03, concerning failure to stop. MTSC>BULLETINS>Bulletins by Year  6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel. |  |
|---|--|
| Management Order, currently MMO-002-03, concerning failure to stop. MTSC>BULLETINS>Bulletins by Year  6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel.  DBCS VALIDATION:  (min)  (000)  |  |
| concerning failure to stop.  MTSC>BULLETINS>Bulletins by Year  6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel.  DBCS VALIDATION:  2 7 3  |  |
| MTSC>BULLETINS>Bulletins by Year  6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel.  DBCS VALIDATION:  2 7 3   |  |
| 6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel.  DBCS VALIDATION:  2 7 3   |  |
| Mode switch back to NORMAL on operator control panel.  DBCS VALIDATION:  Mode switch back to NORMAL on operator control panel.  2 7 3   |  |
| DBCS 32. Check label printer. Verify label quality. 2 7 3   |  |
| VALIDATION:   |  |
|   |  |
|   |  |
| Be cautious when working around or on   |  |
| equipment when power has been applied.  |  |
| On label printer, press LINE FEED button one time. Label printer will print out test label.   |  |
| Verify test label has good quality print (not blurred) and is readable to human eye.  |  |
| 3. If the quality of the print is unacceptable, write a work order to troubleshoot and/or clean the thermal head using cleaning kit, PSN 7930-07-000-1593.  |  |
| DBCS 33. Run WFOV test deck (PSN 3915-06-000-8292) 9 9 3  |  |
| VALIDATION: WFOV TEST DECK WARNING WARNING  |  |
|   |  |
| Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.  |  |
| Set up machine in DBCS Mode.  |  |
| 2. Load Run information.  |  |
| 3. Enter Operation number (750).  |  |
| 4. Select F2 to accept.   |  |
| 5. Load sort plan WFOV_TDK.EBF  |  |
| 6. Select "Start Mail Processing".  |  |

| U.S. Postal Service                             |      | IDENTIFICATION |                     |  |  |      |              |               |     |             |           |        |      |     |      |
|---|------|----------------|---------------------|--|--|------|--------------|---------------|-----|-------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           | W C  | RK<br>DE       |                     |  |  |      | MENT<br>ONYM |               |     |             | ASS<br>DE | N      | UMBE | ĒR  | TYPE |
|   | 0    | 0 3 D B C S    |                     |  |  |      |              |               | C K |             |           | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi | •              | nt Mod<br>CS F<br>L |  |  | 5 wi | th           | Bulletin<br>m |     | ame<br>9132 | C         | Occurr |      | СВМ |      |

| Part or                                | Item | Task Statement and Instruction  | Est.                 | Min.         |              | Thresholds             | ;     |
|--|------|---|----------------------|--------------|--------------|------------------------|-------|
| Component                              | No   | (Comply with all current safety precautions)  | Time<br>Req<br>(min) | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed<br>(000) | Freq. |
|  |      | 7. Select Display ZIP/Pkts and On Line Display.   |                      |              |              |                        |       |
|  |      | 3. Start machine and process WFOV test deck. Ensure WFOV has a GAR that equals 99% or greater. If the GAR is lower than 99%, check read reject bins for any test cards that may have unreadable bar codes. If necessary, perform a WFOV auto-calibration. |                      |              |              |                        |       |
|  |      | <ol> <li>Verify the Certified Mail portion of the test<br/>deck sorts properly.</li> </ol>  |                      |              |              |                        |       |
|  |      | <ol> <li>If any additional time is needed to correct ZIP<br/>result discrepancies and/or GAR issues,<br/>including auto-calibration, initiate a work<br/>order.</li> </ol>  |                      |              |              |                        |       |
| DBCS<br>VALIDATION: ICS<br>STRESS DECK | 34.  | CS reader validation.  WARNING  | 5                    | 9            |              | 3                      |       |
|  |      | Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.            |                      |              |              |                        |       |
|  |      | Verify the ICS-3 reader as follows:   |                      |              |              |                        |       |
|  |      | <ol> <li>Set machine up to run in DBCS mode, use<br/>sort plan ICSTSTI.ebf.</li> </ol>  |                      |              |              |                        |       |
|  |      | <ol><li>From ON LINE MAIL PROCESSING screen,<br/>select Display ZIPs/Pkts.</li></ol>  |                      |              |              |                        |       |
|  |      | <ol> <li>From Select Display Option screen, select<br/>On-Line Display.</li> </ol>  |                      |              |              |                        |       |
|  |      | 4. Start machine and run the stress deck, PSN 3915-10-000-6361.   |                      |              |              |                        |       |
|  |      | <ol> <li>At on line display screen, verify that ICS-3<br/>Reader detected all ID Tags present and they<br/>read same.</li> </ol>  |                      |              |              |                        |       |
|  |      | 6. Stop machine.  |                      |              |              |                        |       |
|  |      | 7. Retrieve and verify cards sorted correctly. Refer to the most recent MMO, currently, MMO-144-15, dealing with sorting problems. MTSC>BULLETINS>Bulletins by Year   |                      |              |              |                        |       |

| U.S. Postal Service                             |             |          |                    |  |  |       |             | IDE | NTIF | CATI | ON           |           |       |      |     |      |
|---|-------------|----------|--------------------|--|--|-------|-------------|-----|------|------|--------------|-----------|-------|------|-----|------|
| Maintenance Checklist                           |             | RK<br>DE |                    |  |  |       | MENT<br>NYM |     |      |      |              | ASS<br>DE | N     | JMBE | R   | TYPE |
|   | 0 3 D B C S |          |                    |  |  |       |             |     |      |      | C            | K         | 0     | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi        |          | nt Mo<br>CS F<br>L |  |  | 5 wit | h           | Ві  |      |      | name<br>9132 | C         | ccurr |      | СВМ |      |

| Part or              | Itom       | Task Statement and Instruction   | Est.  | Min.  |          | Thresholds | . 1      |
|----------------------|------------|--|-------|-------|----------|------------|----------|
| Component            | Item<br>No | (Comply with all current safety precautions)   | Time  | Skill | Run      | Pieces     | Freq.    |
| · '                  |            |  | Req   | Lev   | Hours    | Fed        |          |
|                      |            |  | (min) |       |          | (000)      |          |
|                      |            | 8. Notify supervisor of any problems found.  |       |       |          |            |          |
| DBCS                 | 35.        | Verify that the OCR engine in the DBCS mode  | 9     | 9     |          | 1100       |          |
| VALIDATION: UAA      |            | can intercept UAA mail.  |       |       |          |            |          |
| INTERCEPT<br>BARCODE |            | WARNING  |       |       |          |            |          |
|                      |            | Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts. |       |       |          |            |          |
|                      |            | Using the Xanadu Test Deck, PSN 9310-08-000-<br>3864, P/N 66.1026.034-00, do the following:  |       |       |          |            |          |
|                      |            | From the Main Menu:  |       |       |          |            |          |
|                      |            | Select Mode Select.  |       |       |          |            |          |
|                      |            | 2. Select DBCS.  |       |       |          |            |          |
|                      |            | 3. Load Run Information.   |       |       |          |            |          |
|                      |            | 4. Enter Operation Number (750).   |       |       |          |            |          |
|                      |            | 5. Select F2 to accept.  |       |       |          |            |          |
|                      |            | <ol> <li>Load a sortplan that has a confirmed UAA<br/>pocket assigned (ParsSpecial Pockets.ebf<br/>assigns pocket 39 for UAA).</li> </ol>  |       |       |          |            |          |
|                      |            | 7. Start mail processing and run UAA test deck.  |       |       |          |            |          |
|                      |            | 8. Print or view the End of Run report.  |       |       |          |            |          |
|                      |            | <ol> <li>Calculate the intercept rate (# confirmed UAA<br/>test pieces divided by the total # of test<br/>pieces fed, multiplied by 100).</li> </ol>   |       |       |          |            |          |
|                      |            | <ol><li>Verify that at least 90% of the UAA test deck<br/>was intercepted.</li></ol>   |       |       |          |            |          |
|                      |            | 11. Log off the system computer.   |       |       |          |            |          |
| FINAL CLEAN UP       | 36.        | Clean up.  | 2     | ALL   |          |            |          |
|                      |            | Ensure all tools, lubricants, rags, etc., are  |       |       |          |            |          |
|                      |            | removed from the work area. Report all   |       |       |          |            |          |
|                      |            | deficiencies to supervisor.  |       |       | <u> </u> |            | <u> </u> |

| U.S. Postal Service                             |      |  |   |   |   |   |             | IDENTI | FICAT | ION          |           |        |      |     |      |
|---|------|--|---|---|---|---|-------------|--------|-------|--------------|-----------|--------|------|-----|------|
| Maintenance Checklist                           | _    | RK<br>DE                                   |   |   | _ |   | MENT<br>NYM |        |       | CLA<br>CO    | ASS<br>DE | N      | UMBE | ER  | TYPE |
|   | 0    | 3  | D | В | С | S |             |        |       | С            | K         | 0      | 0    | 1   | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi | Equipment Model DBCS Phase 3-5 with LAUPH2 |   |   |   |   |             | Bullet |       | name<br>9132 | О         | ccurre |      | СВМ |      |

| Part or   | Item | Task Statement and Instruction               | Est.        | Min.         |              | Threshold     | S     |
|-----------|------|--|-------------|--------------|--------------|---------------|-------|
| Component | No   | (Comply with all current safety precautions) | Time<br>Rea | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed | Freq. |
|           |      |  | (min)       |              | 110015       | (000)         |       |

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# **ATTACHMENT 3**

### **MASTER CHECKLIST**

09-DBCS-CK-001-M

**Operational Maintenance** 

Time Total: 46 minutes

| Task Item Number | Basic Task | Times Done     | Total Time    |
|------------------|------------|----------------|---------------|
|                  | Time Min.  | During Tour    | per Tour Min. |
| 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                | 2          | 3              | 6             |
| 9                | 1          | 3              | 3             |
| 10               | 5          | 3              | 15            |
| 11               | 2          | 2              | 2             |
|                  |            |                |               |
|                  |            |                |               |
|                  |            |                |               |
|                  |            |                |               |
|                  |            | Total OPM Time | 46            |

| 10110 110 10                                    |      |  |   |   |   |   |                  |     |                     | <u> </u> | <u> </u>      | , | <u> </u> | <u> </u> | <u> </u> | 0011101 |
|---|------|--|---|---|---|---|------------------|-----|---------------------|----------|---------------|---|----------|----------|----------|---------|
| U.S. Postal Service                             |      |  |   |   |   |   |                  | IDE | NTIF                | ICATI    | ON            |   |          |          |          |         |
| Maintenance Checklist                           | CO   | RK<br>DE                                   |   |   |   |   | MEN <sup>-</sup> |     |                     |          | CLASS<br>CODE |   | N        | UMBE     | ER       | TYPE    |
|   | 0    | 9  | D | В | С | S |                  |     |                     |          | O             | K | 0        | 0        | 1        | М       |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi | Equipment Model DBCS Phase 3-5 with LAUPH2 |   |   |   |   |                  |     | ulletir<br><b>N</b> |          | name<br>9132  |   | Occuri   |          | ourly    |         |

| Part or   | Item | Task Statement and Instruction               | Est.  | Min.  |       | Threshold | s     |
|-----------|------|--|-------|-------|-------|-----------|-------|
| Component | No   | (Comply with all current safety precautions) | Time  | Skill | Run   | Pieces    | Freq. |
|           |      |  | Req   | Lev   | Hours | Fed       |       |
|           |      |  | (min) |       |       | (000)     |       |

|                         |    |  | (min) |     | (000) |   |
|-------------------------|----|--|-------|-----|-------|---|
|                         |    |  |       |     |       |   |
| SAFETY<br>STATEMENT     | 1. | 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. | 1     | All |       | Т |
|                         |    | 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 cannot be used. Report safety deficiencies to your supervisor immediately upon detection.        |       |     |       |   |
|                         |    | 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.  |       |     |       |   |
| DBCS<br>OPM:<br>MACHINE | 2. | At the beginning of operation, examine machine log.  | 1     | 9   |       | Т |
| LOGBOOK                 |    | WARNING  |       |     |       |   |
|                         |    | Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.   |       |     |       |   |
|                         |    | NOTE   |       |     |       |   |
|                         |    | While performing listed operational maintenance tasks, be alert for unusual sounds, odors, or other indications of potential failure conditions in the machine.  |       |     |       |   |

| U.S. Postal Service                             |     |             |                    |  |  |       |             | IDENTIFICAT   | TION           |           |        |      |       |      |
|---|-----|-------------|--------------------|--|--|-------|-------------|---------------|----------------|-----------|--------|------|-------|------|
| Maintenance Checklist                           |     | RK<br>DE    |                    |  |  |       | MENT<br>NYM |               |                | ASS<br>DE | N      | UMBE | ĒR    | TYPE |
|   | 0   | 0 9 D B C S |                    |  |  |       |             |               | C              |           |        | 0    | 1     | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equ | •           | nt Mo<br>CS F<br>L |  |  | 5 wit | h           | Bulletin File | ename<br>19132 | •         | Occurr |      | ourly |      |

|                               | •    | _  |             |              |              |               |       |
|-------------------------------|------|--|-------------|--------------|--------------|---------------|-------|
| Part or                       | Item | Task Statement and Instruction   | Est.        | Min.         |              | Thresholds    |       |
| Component                     | No   | (Comply with all current safety precautions)   | Time<br>Req | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed | Freq. |
|                               |      |  | (min)       | LOV          | riours       | (000)         |       |
|                               |      | Examine log and document any unresolved  |             |              |              |               |       |
|                               |      | problems from the previous tour.   |             |              |              |               |       |
|                               |      | NOTE   |             |              |              |               |       |
|                               |      | Operational checks must be made with machine processing mail in a normal operating mode.   |             |              |              |               |       |
| DBCS OPM:<br>MACHINE SAFETY   | 3.   | Every two hours observe warning horn and beacons.  | 1           | 9            |              |               | Т     |
|                               |      | Watch for proper operation of warning horn and beacons on machine start-ups.   |             |              |              |               |       |
| DBCS OPM:                     | 4.   | Every two hours check lamps.   | 1           | 9            |              |               | Т     |
| MACHINE<br>INDICATOR<br>LAMPS |      | Watch for proper functionality of indicator lamps used during normal machine operations. Correct deficiencies as soon as practical.  |             |              |              |               |       |
| DBCS OPM:<br>OPERATORS        | 5.   | Every two hours observe Feeder and check with operator.  | 1           | 9            |              |               | Т     |
|                               |      | Observe the Feeder operation and inquire if operators are having excessive processing problems. Investigate as necessary. Initiate corrective action as appropriate.                   |             |              |              |               |       |
| DBCS OPM:<br>VIDEO DISPLAY    | 6.   | Every two hours check mail processing screen.  | 1           | 9            |              |               | Т     |
| TERMINAL<br>WFOV              |      | Check current Accept Rate Value on the<br>GUI to ensure the sort plan, operating mode,<br>and Accept Rate is correct for the mail being<br>processed in accordance with the following: |             |              |              |               |       |
|                               |      | a. Operation 918 and 919 - 99.1% GAR   |             |              |              |               |       |
|                               |      | b. All other Operations 98.8% GAR  |             |              |              |               |       |
|                               |      | 2. If MAR or GAR is below acceptable values:   |             |              |              |               |       |
|                               |      | Check for degraded image and/or dust/debris accumulations on WFOV faceplate by observing the thumbnail image on the upper left on the GUI.   |             |              |              |               |       |
|                               |      | b. If the image is degraded or if problems are noted take appropriate corrective action.   |             |              |              |               |       |

| U.S. Postal Service                             |      |          |                    |   |   |       |                         | IDE | NTIF         | ICATI | ON           |   |       |      |       |      |
|---|------|----------|--------------------|---|---|-------|-------------------------|-----|--------------|-------|--------------|---|-------|------|-------|------|
| Maintenance Checklist                           | CO   | RK<br>DE |                    |   |   |       | MEN <sup>-</sup><br>NYM |     |              |       | CLA<br>CO    |   | N     | JMBE | ER    | TYPE |
|   | 0    | 9        | D                  | В | С | S     |                         |     |              |       | O            | K | 0     | 0    | 1     | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equi | •        | nt Mo<br>CS F<br>L |   |   | 5 wit | h                       | В   | ulletin<br>N |       | name<br>9132 | C | ccurr |      | ourly |      |

| Part or                                     | Itam       | Task Statement and Instruction  | Est.  | Min.  |       | Thresholds |        |
|---|------------|---|-------|-------|-------|------------|--------|
| Component                                   | Item<br>No | (Comply with all current safety precautions)  | Time  | Skill | Run   | Pieces     | Freq.  |
| Component                                   | ""         | (Comply War an Cartonic Carety procedurency)  | Req   | Lev   | Hours | Fed        | r roq. |
|   |            |   | (min) |       |       | (000)      |        |
| DBCS OPM:<br>OVERFLOW                       |            | Every two hours check mail in the<br>Overflow/Reject Stacker.   | 2     | 9     |       |            | Т      |
| STACKER                                     | !<br>-     | Check type of mail present in overflow stacker to determine which area(s) of the machine might be malfunctioning. Check for indications of double feeds, one particular code, a single gate, or mail path blockage problem. Document any problems found and if needed write a work order. |       |       |       |            |        |
| DBCS OPM:                                   | 8.         | Every two hours check for missorts.   | 2     | 9     |       |            | Т      |
| SORTING<br>STACKERS                         | •          | Take a sample from at least 5 stackers and verify the address block matches the scheme for that pocket. Verify mail pieces enter stacker in a uniform manner. Document any problems found and if needed write a work order.   |       |       |       |            |        |
| DBCS OPM:<br>READER,<br>ICS-3               |            | Every two hours examine the Message Relay<br>Log by pressing "alt-tab" on the host VDT<br>GUI for excessive ID TAG ERROR messages<br>and if needed do the following:  | 1     | 9     |       |            | Т      |
|   |            | <ol> <li>Check ICS-3 ID tag reader exterior for<br/>accumulated dust, dirt, and debris or<br/>loose/worn belts, paying particular attention<br/>to the aperture and to the raised portion of<br/>the faceplate.</li> </ol>  |       |       |       |            |        |
|   |            | <ol><li>Document any problems found and if needed write a work order.</li></ol>   |       |       |       |            |        |
| DBCS OPM:<br>ACE/MKAT<br>LAPTOP<br>COMPUTER |            | Every 2 hours check all performance indicators displayed on the MPEWatch Realtime Maintenance View Screen including the following items:  | 5     | 9     |       |            | Т      |
|   |            | Key Performance Indicators (KPI) report.  |       |       |       |            |        |
|   |            | NOTE  |       |       |       |            |        |
|   |            | Access to KPI can be done by clicking on the hyperlink located in the column titled "KPI%".   |       |       |       |            |        |
|   |            | 2. Unplanned Events.  |       |       |       |            |        |
|   |            | 3. DPS Information.   |       |       |       |            |        |
|   |            | 4. Take appropriate action to investigate and correct any abnormalities detected in viewing MPEWatch. Generate a work order for further maintenance actions if required.  |       |       |       |            |        |

| U.S. Postal Service                             |     |  |   |   |   |   |             | IDENT | FICAT           | ION           |   |        |            |       |      |
|---|-----|--|---|---|---|---|-------------|-------|-----------------|---------------|---|--------|------------|-------|------|
| Maintenance Checklist                           | _   | RK<br>DE                                   |   |   |   |   | MENT<br>NYM |       |                 | CLASS<br>CODE |   | NUMBER |            |       | TYPE |
|   | 0   | 9  | D | В | С | S |             |       |                 | С             | K | 0      | 0          | 1     | М    |
| Equipment Nomenclature Delivery Bar Code Sorter | Equ | Equipment Model DBCS Phase 3-5 with LAUPH2 |   |   |   |   |             |       | tin File<br>MM1 | name<br>9132  |   | Occu   | rence<br>T | ourly |      |

| Part or                     | Item | Task Statement and Instruction   |             | Min.         | Thresholds   |               |       |
|-----------------------------|------|--|-------------|--------------|--------------|---------------|-------|
| Component                   | No   | (Comply with all current safety precautions)   | Time<br>Req | Skill<br>Lev | Run<br>Hours | Pieces<br>Fed | Freq. |
|                             |      |  | (min)       |              |              | (000)         |       |
| DBCS OPM:<br>ADMINISTRATIVE |      | At the end of the operation tour, compile the following information:                     | 2           | 9            |              |               | Т     |
|                             |      | Route sheet information.   |             |              |              |               |       |
|                             |      | 2. Any work orders generated.  |             |              |              |               |       |
|                             |      | Make entries in Machine Logbook of any discrepancies found during the mail run.          |             |              |              |               |       |
|                             |      | Turn this information in to Maintenance     Supervision. Brief personnel coming on duty. |             |              |              |               |       |