



# maintenance management order

**SUBJECT:** PM Guidelines for Motor Control Centers

**DATE:** July 9, 1998

**NO:** MMO-030-98

**TO:** Bulk Mail Centers

**FILE CODE:**

Y

dewa:M94108AC

This Maintenance Management Order (MMO) provides Preventive Maintenance (PM) guidelines for BMC Motor Control Centers and supersedes Maintenance Checklist B036.

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

## WARNING

**Various products which require material Safety Data Sheets (MSDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current MSDS for each product used is on file and available for reference by all employees. As a minimum, obtain a current MSDS every two years.**

The attached master checklist provides tasks to be performed at periodic intervals (as noted in the frequency column), the maximum time required per task, and the minimum skill level for each task. Given local conditions, management may notify task frequencies.

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

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Attachments: 1. Summary of Revised Workload Estimate  
2. Motor Control Center Master Checklist



**ATTACHMENT 1****-SUMMARY-****REVISED WORKLOAD ESTIMATE****FOR****MOTOR CONTROL CENTER**

Routine Servicing (hrs/yr)	Repair* (hrs/yr)	Total Servicing & Repair Time (hrs/yr)	Nonproductive Time ** (hrs/yr)	Total Servicing Per Machine (hrs/yr)
1.7	0.5	2.2	0.3	2.5

\* Repair estimates based on 30% of servicing.

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

**TIME TOTALS**

Quarterly Time Total: 0.4 Hrs. \*\*\*

Annual Time Total 0.1 Hrs. \*\*\*

**NOTE**

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

\*\*\* These times are provided for data entry for the MARS System.

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**ATTACHMENT 2****MOTOR CONTROL CENTER MASTER CHECKLIST**

03-ELEC-AA-001-M

The "Part or Component" column for each step on the Master Checklist provides a "Frequency Code" designation followed by a letter or series of letters. These letters correspond to the frequency codes as published in MS-63 and specify the frequency for which that instruction (step) must be performed. These frequency codes are in compliance with NMICS superseding route structure. The possible frequencies and their codes are given in the table below:

**Table 2-1. MS-63 (NMICS) Frequency-Codes**

<b><u>CODE</u></b>	<b><u>FREQUENCY</u></b>	<b><u>DESCRIPTION</u></b>
A	ANNUAL	Once every 13 APs.
B	BI-WEEKLY	Once every 2 weeks
C	BI-MONTHLY	Once every 2 APs.
D	DAILY	Once a day; 7 days a week.
E	DAILY	Once a day; 6 days a week.
F	DAILY	Once a day; 5 days a week.
G	DAILY	Once a day; 4 days a week.
H	DAILY	Once a day; 3 days a week.
J	SEMI-WEEKLY	2 days a week.
K	BI-ANNUAL	Once every 2 years.
L	TRI-ANNUAL	Once every 3 years.
M	MONTHLY	Once every AP.
N	QUAD-ANNUAL	Once every 4 years.
P	QUINT-ANNUAL	Once every 5 years.
Q	QUARTERLY	4 times every 13 APs.
S	SEMI-ANNUAL	Twice every 13 AP.
T	TOURLY	3 times a day; 7 days a week.
U	TOURLY	Twice a day; 7 days a week.
V	TOURLY	3 times a day; 6 days a week.
W	WEEKLY	Once a week.
X	TOURLY	Twice a day; 6 days a week.
Y	TOURLY	3 times a day; 5 days a week.
Z	TOURLY	Twice a day; 5 days a week.

U.S. Postal Service <b>Maintenance Checklist</b>	IDENTIFICATION										
	Work Code:		Equipment Acronym				Class Code:		Number		Type
	0	3	E	L	E	C	A	A	0	0	1
Equipment Nomenclature <b>MOTOR CONTROL CENTER</b>		Equipment Model				Bulletin Filename <b>M94108AC</b>		Frequency <b>ALL</b>			

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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SAFETY STATEMENT  Frequency Code: -Q--A-	1.	<b>COMPLY WITH ALL SAFETY PRECAUTIONS.</b> - Disconnect power and activate lockouts as appropriate while working on this equipment. Where air pressure is required for cleaning, use a low air pressure (30 psi or less) air source. Eye protection (goggles or face shield) must be used when utilizing compressed air for cleaning. Check to ensure all employees are clear of the machine. Report safety deficiencies to your supervisor immediately upon detection.	3 min	All
SYSTEM  Frequency Code: -Q--A-	2.	<b>POWER DOWN AND LOCKOUT POWER.</b> - Power down the equipment and lockout its electrical power as prescribed by the procedures contained in, or locally developed in accordance with, the current Maintenance Management Order (MMO) providing lockout/restore procedures.	1 min	All
EC1 MOTOR STARTER PANEL  Frequency Code: -Q--A-	3.	<b>CLEAN PANEL EXTERIOR.</b> - Clean exterior of panel by wiping.	3 min/ panel	4

**WARNING**

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

Frequency Code: -Q--A-	4.	<b>CLEAN PANEL INTERIOR.</b> - Clean interior of panel by vacuuming or blowing.	2 min/ panel	5
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	0	3	E	L	E	C	A	A	0	0	1
Equipment Nomenclature <b>MOTOR CONTROL CENTER</b>		Equipment Model				Bulletin Filename <b>M94108AC</b>		Frequency <b>ALL</b>			

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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|---|----|---|--------------------|-----|
| EC1 MOTOR STARTER PANEL (Cont.)<br><br>Frequency Code: -Q--A- | 5. | <b>CHECK CONDUIT.</b> - Check conduit as follows:<br><br>A. Check conduit and wiring in the vicinity of the panel for damage.<br><br>B. Check conduit couplings for separation. | 2<br>min           | 4   |
| Frequency Code: -Q--A-  | 6. | <b>EXAMINE PANEL.</b> - Examine panel and panel switches and lamps for damage or loose components.  | 1<br>min/<br>panel | 5   |
| Frequency Code: -Q--A-  | 7. | <b>CHECK INTERIOR.</b> - Check panel interior, fuses, connections, and relay contacts for evidence of damage, arching and burning.  | 5<br>min/<br>panel | 5   |
| Frequency Code: ----A-  | 8. | <b>CHECK COMPONENTS.</b> - Check panel interior for loose connections, tighten if necessary.  | 5<br>min/<br>panel | 5   |
| CLEAN UP<br><br>Frequency Code: --Q--A-                       | 9. | <b>CLEAN-UP.-</b> Ensure all tools, rags, etc., are removed from the work area.   | 3<br>min           | All |

**WARNING**

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

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|--------------------------------------|-----|---|----------|-----|
| SYSTEM<br><br>Frequency Code: -Q--A- | 10. | <b>RESTORE EQUIPMENT TO SERVICE.</b> - Restore equipment to service as prescribed by the procedures contained in, or locally developed in accordance with, the current Maintenance Management Order (MMO) providing lockout/restore procedures. | 1<br>min | All |
|--------------------------------------|-----|---|----------|-----|