HI-SPEED
OVERHEAD HOISTS AND CRANES

Millington, TN > 901-873-5300
Litle Rock, AR > 501-375-9178

Overhead Crane Classification & Duty Cycle

CMAA CLASS C

Controls for CMAA Class C service are based upon ten cycles per hour with an average 50% load.

A typical cycle is defined as follows:

1. Raise @ 30 sec with 50% load
2. Traverse @ 60 sec with 50% load
3. Lower @ 30 sec with 50% load
4. Raise @ 30 sec with 10% load
5. Traverse @ 30 sec with 10% load

Deceleration time for traverse motions is assumed to be 5 seconds, with a maximum 120% retarding torque.

The total lowering time at full speed should not exceed 60 seconds.*

CMAA CLASS D

Controls for CMAA Class D service are based upon twenty cycles per hour with an average 65% load.

A typical cycle is defined as follows:

1. Raise @ 30 sec with 65% load
2. Traverse @ 60 sec with 65% load
3. Lower @ 30 sec with 65% load
4. Raise @ 30 sec with 10% load
5. Traverse @ 30 sec with 10% load

Deceleration time for traverse motions is assumed to be 3 seconds, with a maximum 150% retarding torque.

The total lowering time at full speed should not exceed 60 seconds.*

CMAA CLASS E

Controls for CMAA Class E service are based upon twenty five cycles per hour with an average 100% load.

A typical cycle is defined as follows:

1. Raise @ 24 sec with 100% load
2. Traverse @ 24 sec with 100% load
3. Lower @ 24 sec with 100% load
4. Raise @ 24 sec with 10% load
5. Traverse @ 24 sec with 10% load

Deceleration time for traverse motions is assumed to be 3 seconds, with a maximum 160% retarding torque.

The total lowering time at full speed should not exceed 60 seconds.*

CMAA CLASS F

Controls for CMAA Class F service are based upon continous severe service with loads approaching rated capacity.

A typical cycle is defined as follows:

1. Raise with 100% load
2. Traverse with 100% load
3. Lower with 100% load
4. Raise with 50% load
5. Traverse with 50% load

Deceleration time for traverse motions is assumed to be two seconds, with a maximum 175% retarding torque.

The total lowering time at full speed should not exceed 60 seconds.*

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Overhead Crane Inspection Intervals

"Frequent" Inspection Interval Requirements

CMAA Service Class	ASME B30.2 Service Class	Number of Shifts Operated Per Day			
		Stand-by	1 Shift	2 Shifts	3 Shifts
		Frequency of Inspection			
A	Normal	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual
B			Monthly	Monthly	Monthly
C			Monthly	Monthly	Semi-Monthly to Monthly
D	Heavy		Monthly	Semi-Monthly to Monthly	Weekly to Semi-Weekly
E	Severe		Weekly	3-5 Days	Daily
F			Daily	Daily	Daily

CMAA 78, Standards and Guidelines for Professional Service Performed on Overhead and Traveling Cranes and Associated Equipment, 2015
Table 4-3-1

Periodic Inspection Interval Requirements

(Often incorrectly referred to as "the Annual Inspection"

CMAA Service Class	ASME B30.2 Service Class	Number of Shifts Operated Per Day		
		1 Shift	2 Shifts	3 Shifts
		Frequency of Inspection		
A	Normal	Annually	Annually	Annually
B		Annually	Annually	Annually
C		Annually	Annually	Annually
D	Heavy	Annually	Semi-Annual to Annually	Semi-Annually
E	Severe	Quarterly	Quarterly	Quarterly
F		Quarterly	Quarterly	Quarterly

CMAA 78, Standards and Guidelines for Professional Service Performed on Overhead and Traveling Cranes and Associated Equipment, 2015
Table 4-4-1

OUR WEST TENNESSEE LOCATION
7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

OUR CENTRAL ARKANSAS LOCATION
6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
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