MULTIPLE HOIST CONTROL

CM Lodestars can be singularly operated via the standard two button control station (pickle) or in unlimited numbers linked together through a master controller.

If two or more hoists are operated via a master control arrangement, the following items must be considered:

- **Hoist controllers must comply with applicable directives, national codes and local codes.**

- **CM recommends using two interlocks in the control circuit of electric hoists. The arrangement of the Lodestar is a mechanical interlock built into the reversing contactor and another mechanical interlock in the control station.**

  When operating a CM Lodestar without the factory control station, provisions must be made to incorporate either a mechanical or electrical interlock in the controller.

- **Pilot Lights should be used to indicate direction of hoist travel. This feature is particularly important when operating in a darkened venue.**

- **Key lock switch should be used to prevent unauthorized operation.**

- **Toggle switches used for directional control should be double-throw center-off type.**

- **Isolating relays should be used to prevent hoist transformer damage.**

- **A mushroom style emergency stop button controlling power flow to the hoist should be used. The E-Stop button should be connected to a mainline contactor(s) mounted in the power distro.**

- **Standard control voltage is 115 VAC provided by a 25 VA transformer mounted in the hoist head. Other control voltages are available but due to long control runs, not advisable.**

- **Provisions must be made to insure proper hoist grounding. This is especially important when using polyester round slings and/or burlap beam wrap creating electrical isolation.**

WARNING
Failure to properly ground the hoist presents the danger of electric shock.
TO AVOID INJURY: Permanently ground the hoist per applicable directives, national codes and local codes.

MULTIPLE HOIST CONTROL Cont.

- **Computer controlled hoists present unique and potentially dangerous situations that should only be undertaken by qualified individuals.**

- **Momentary type "Go" buttons are the only style recommended by CM. The switches must return to the Off position when released.**

- **Excessive hoist chatter may occur when starting several hoists at one time. This condition may be due to a low voltage condition at the hoist. Care should be taken to insure sufficient voltage at all times. If corrective action can't be undertaken immediately, reduce the number of hoists started at one time or stagger the start sequence. To stagger hoist starts, arm all the hoists in the off position, push the go button, then flip the toggles in the desired direction, one at a time, in sequence. Caution must be observed because it may cause loading points to shift significantly, leading to dangerous operation.**