INSTALLATION OF CARBON MONOXIDE MONITOR

NOTES:

1. Electrical installation and connections at a customer's facility shall be made by a QUALIFIED ELECTRICIAN following the adopted codes, standards, and procedures specified by the authority having jurisdiction for that location.
2. Conductors shall be the size and type specified in NFPA-79, ELECTRIAL STANDARD FOR INDUSTRIAL MACHINERY, Chapter 15.
3. Wiring shall be color-coded and installed as specified in NFPA-79 ELECTRIAL STANDARD FOR INDUSTRIAL MACHINERY, Chapter 16.

4. **UNGROUNDED CONDUCTORS WHICH MAY REMAIN ENERGIZED WHEN THE MAIN DISCONNECT IS IN THE "OFF" POSITION SHALL BE COLORED YELLOW.**

REMOVAL OF OLD MONITOR

1. Remove electrical power from the blast room at the main electric panel disconnect and shut off the compressed air supply to the blast room and all components. **LOCK OUT & TAG OUT** electric and compressed air supplies. Bleed off all compressed air trapped down stream.

2. Disconnect the electrical wires and air supply hoses for the Enmet monitor. Remove the Enmet CO monitor.

3. Remove all wires connecting the main electrical enclosure to the Enmet monitor (wire #7, #12, #17, #2) at the electrical enclosure.

INSTALLATION OF NEW CO MONITOR
EMPIRE part number 321030

1. Unpack the monitor and inspect it for concealed damage. If damage is found, **YOU** must file a claim with the freight carrier.

2. Remove electrical power from the blast room at the main electric panel disconnect and shut off the compressed air supply to the blast room and all components. **LOCK OUT & TAG OUT** electric and compressed air supplies. Bleed off all compressed air trapped down stream.

INSTALLATION OF CARBON MONOXIDE MONITOR

3. Remove the junction box cover located at the top right side of the filter panel assembly. Locate the black, white and green wires inside the junction box. They are the signal wires that will be connected in the main electrical enclosure in step numbers 11 through 15.

4. Remove the plastic plug from the sheet metal enclosure above the junction box. Remove the knock out at the top of the junction box and install a conduit connector in the hole.

5. Securely mount the CO monitor with filtration panel on the blast room wall in a convenient location for the blast operator's air feed hood airline connection.

6. Install conduit from the connector installed in step #4 above to the main electrical enclosure.

7. Install the new relay socket, Empire part 531514 inside electrical enclosure. Remove the factory installed jumper between terminal #7 and #12.

8. Install one (1) **RED** wire labeled as #7 from the right hand side of the terminal strip screw #7 to the new relay socket screw number 2. (Refer to picture)

9. Install one (1) **RED** wire labeled as #12 from the right hand side of the terminal strip screw #12 to the new relay socket screw number 10. (Refer to picture)

WARNING:
UNGROUNDED CONDUCTORS WHICH MAY REMAIN ENERGIZED WHEN THE MAIN DISCONNECT IS IN THE "OFF" POSITION SHALL BE COLORED YELLOW.

10. Install two (2) **YELLOW** wires (label one **A** and the second **B)**, and one (1) **GREEN** wire inside the conduit from the main electric enclosure to the CO monitor junction box.

11. Inside the monitor junction box, connect the two (2) **GREEN** wires to the **GROUND** screw inside the box.

12. Inside the monitor junction box, connect **YELLOW** wire **A** to the **BLACK** wire inside the box and **YELLOW** wire **B** to the **WHITE** wire inside the box. Install the junction box cover.

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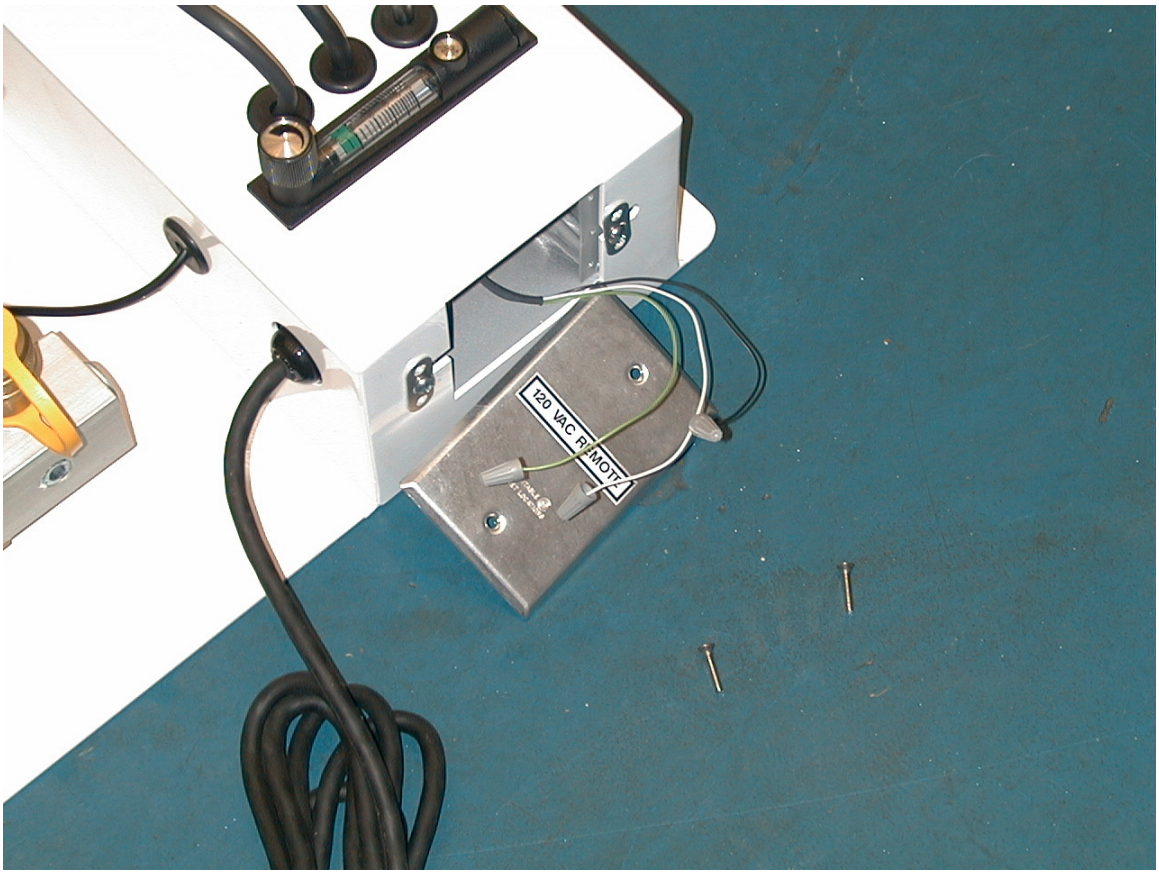
13. Inside the main electrical enclosure toward the bottom of the terminal strip, several connections from the nearest used connection, label two adjacent terminal connections, one **A** and the second **B**. Connect **YELLOW** wire **A** to the left side of the terminal strip at the screw just marked A and connection **YELLOW** wire **B** to the left side of the terminal strip at the screw just marked **B**.

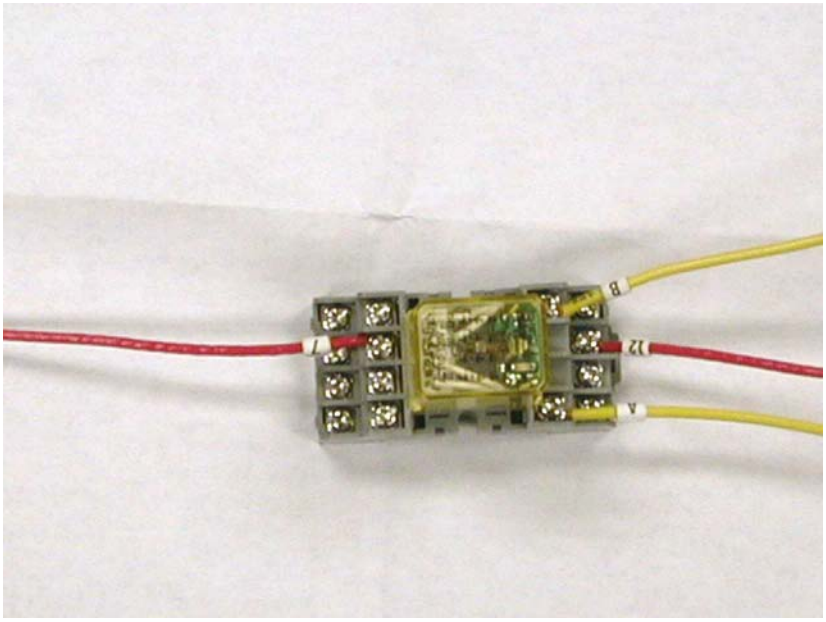
14. Inside the main electrical enclosure, connect the **GREEN** wire from the CO monitor conduit to the **GND** terminal at the bottom of the terminal strip.

15. Inside the main electrical enclosure now install a **YELLOW** wire **A** to the right side of the terminal strip at the screw just marked **A** and a wire **YELLOW** wire **B** to the right side of the terminal strip at the screw just marked **B**. Run the wires inside the plastic wire ducts to the new relay **1CR**. Connect **YELLOW** wire **A** to the relay screw terminal **14** and connect **YELLOW** wire **B** to the relay screw terminal **13**. (Refer to picture)



Junction box and wires

INSTALLATION OF CARBON MONOXIDE MONITOR



Relay 1CR wiring