



City of
**Prince
Albert**

Safe Work Practice

Art Hauser Centre Carbon Monoxide Sensors

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Approved by: Curtis Olsen, Sport and Recreation Manager

Signature:  **Practice No:** 7.1.68

Effective: March 11, 2021 **Replaces:** Not Applicable

Purpose:

To provide employees, contractors and emergency personnel a Safe Work Practice in the event of a Carbon Monoxide release.

Refer to the Occupational Health and Safety Regulations for the substance information.

Hazards: Ref: Mayo Clinic.org

Carbon monoxide is a colorless, odorless, tasteless gas produced by burning gasoline, wood, propane, charcoal or other fuel. Improperly ventilated appliances and engines, particularly in a tightly sealed or enclosed space, may allow carbon monoxide to accumulate to dangerous levels.

Signs and symptoms of carbon monoxide poisoning may include:

- Dull headache
- Weakness
- Dizziness
- Nausea or vomiting
- Shortness of breath
- Confusion
- Blurred vision
- Loss of consciousness

Procedure:



1. There are 2 carbon monoxide sensors installed in 2 different ducts directly off of Air Handling Unit #2 (AHU2). One located in the Zamboni Ramp above the score clock winch control switches and the other located in the Back Shop above the staff lockers. The sensors monitor AHU2, which services the entire arena, including bleachers. It does not supply to any dressing rooms, hallways or staff rooms.
2. The sensor should pick up any carbon monoxide released from AHU2 and trigger the alarm to alert staff of a potential problem prior to the Carbon Monoxide reaching a dangerous concentration. The beacon flashes a blue light in both locations simultaneously and there is no sound with the flashing beacon.
3. The set point is at 50 ppm (inside ductwork) and can be adjusted if needed.

4. When the alarm is activated, staff are to:
 - a. Move to the front office and contact the Arena Maintenance Staff immediately.
 - b. Maintenance Staff can access the control computer to investigate the cause and inform staff of the safety and decide if the AHU2 requires shut down. The unit would be shut down if sampling indicates levels at or above 25 ppm outside the ductwork.
 - c. Arena Staff will be required to perform an Air Quality reading, at ice surface level, with the Gastec Detector to confirm the presence of Carbon Monoxide. If the reading is at or above 25 ppm, you are to evacuate the facility as outlined in the Evacuation section of the Emergency Response Plan, call 911 and advise building maintenance/911 of the levels noted during testing. Staff are not to reenter upon evacuation without specific PPE and informed it is safe by Fire Department personnel.
 - d. Building Maintenance will begin ventilating affected areas. Once PA Fire department personnel arrive on site, they will advise on what steps need to be taken and when it is safe to reenter the facility.

5. After safely resolving the matter, staff on duty would be required to:
 - a. Contact the Arena Manager immediately
 - b. Complete the OHS Investigation Report immediately and submit to Arena Manager to submit to Safety Officer within 48 hours of the incident.

6. Annually the CO sensor systems will be tested to ensure proper operation.