

# Indoor Ice Arena Exceedance Report Form

When carbon monoxide (CO) level exceed 20 parts per million (ppm) or nitrogen dioxide (NO<sub>2</sub>) levels exceed 0.3 ppm in an arena building that is open to the public, immediate corrective action must be taken. Follow-up testing is required and a report must be submitted to MDH within five (5) business days of the initial corrective action.

Facility and Arena Name: \_\_\_\_\_

Address: \_\_\_\_\_

Arena Manager Signature: \_\_\_\_\_

## Exceedance Information

Date	Time	# of Resurfaces Today	# of Edger Uses Today	CO Reading	NO <sub>2</sub> Reading	Printed Name

## Corrective Action and Testing (Required)

- If test shows CO > 83 ppm or NO<sub>2</sub> > 2.0 ppm:
  - Increase ventilation and suspend use of combustion powered equipment.
  - Retest the air after 5 minutes.
    - If CO > 83 ppm or NO<sub>2</sub> > 2.0 ppm, **evacuate the arena**.
    - If CO is 21 – 83 ppm or NO<sub>2</sub> is 0.4 – 2.0 ppm, proceed with the steps below.
  
- If test(s) show CO is 21 – 83 ppm or NO<sub>2</sub> is 0.4 – 2.0 ppm:
  - Increase ventilation and suspend the use of combustion powered equipment.
  - Test every 20 minutes until acceptable air quality is reached.
    - If CO levels are continuously higher than 40 ppm or NO<sub>2</sub> levels are continuously above 0.6 ppm for an hour, **evacuate the arena**.
    - If CO levels are continuously above 20 ppm or NO<sub>2</sub> levels are continuously above 0.3 ppm for two hours, **evacuate the arena**.
  
- Once Acceptable air quality is reached (CO ≤ 20 ppm and NO<sub>2</sub> ≤ 0.3 ppm), proceed with the follow up testing on the back page.

## Follow-up Testing (Required)

1. Test every 20 minutes until measurements show levels at or below 20 ppm CO and 0.3 ppm NO<sub>2</sub>.
2. After step 1, test 20 minutes after each of the next 5 uses of ice maintenance equipment.
3. Test a least once per day for the 3 days following the exceedance. (This can include the tests in step #2.)

Date	Time	Equipment Used (Resurfacer, Edger)	CO Reading (ppm)	NO <sub>2</sub> Reading (ppm)	Printed Name

## Report (Required)

The owner/operator of the arena must submit a report to MDH within 5 business days that includes the information below. **PLEASE ATTACH REPORT TO THIS FORM.**

1. Why corrective action was taken in the arena.
2. Describe what corrective action was taken to reduce CO and/or NO<sub>2</sub> levels in the arena. (ex. Increased ventilation rate, suspended the use of combustion engines)
3. A record of all air quality tests associated with the exceedance.
4. An action plan to prevent the reoccurrence.

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To obtain this information in a different format, call: 651-201-4601. Printed on recycled paper.