



Important Air Quality Points to Remember

Environmental Health Division
Indoor Air Unit

MEASUREMENTS

- Measurements of carbon monoxide (CO) and nitrogen dioxide (NO₂) levels need to be taken at least once per week.
- Measurements should be taken at a time of maximum use of the resurfacing machine. The Minnesota Department of Health (MDH) recommends testing twenty (20) minutes after the 2nd to last resurfacing.
- Measurements are taken at the red line, at board height, inside the boards twenty (20) minutes after resurfacing on the busiest day of the week.
- Enter your readings on the Ice Arena Log of Air Quality Testing form.
- If a measurement is missed, explain why in the comment section.
- Submit the Ice Arena Log of Air Quality Testing form to the MDH by the following dates:

Dates of Measurements	Logs Due By
Oct 1 – Dec 31	Jan 15
Jan 1 – Mar 31	Apr 15
Apr 1 – June 30	July 15
Jul 1 – Sept 30	Oct 15

WHAT TO DO WHEN CO/AND OR NO₂ LEVELS ARE HIGH

- Immediately take corrective action to reduce the level. Some suggestions are:
 - Turn on exhaust fans.
 - Open the doors.
 - Open the resurfacing room doors to the outside during resurfacing.
 - Increase ventilation.
 - Reduce the number of times you resurface.
 - Reduce the number of times you edge.
 - Service the resurfacing machine.
- CO levels of more than 30 ppm and/or NO₂ levels of more than 0.5 ppm **must** be reported to the MDH. This can be by telephone or in writing within five working days of the violation.
- Complete an Exceeding Air Quality Standards Report Form. Start taking daily air quality tests. Once you have had five consecutive days of acceptable levels of CO and NO₂, then you may go back to taking air quality measurements weekly.
- Close and evacuate the arena immediately if CO levels exceed 125 ppm and/or NO₂ levels exceed 2 ppm.

EQUIPMENT

- If you have an electronic instrument it must be field calibrated (bump tested) monthly.
- Leak test your pump monthly. See your instruction manual for the proper procedure.
- Do not use detector tubes which have expired.
- Only use detector tubes that were designed for your pump.
- Follow the instructions that come with the tubes. The testing procedure is not generally the same for CO and NO₂.
- Whenever you replace or modify your resurfacing machine, you must update your certificate.

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