Indoor Ice Arena Corrective Action Flow Chart

Use this side when CO is between 21-83 ppm or NO2 levels are between 0.3-2.0 ppm

Take Corrective Action
• Increase ventilation
• Suspend use of all internal combustion equipment

Test air quality every 20 minutes

CO 20 ppm or less or NO2 0.3 or less

No

Test air 20 minutes after each of the next 5 uses of ice maintenance equipment

Test air once a day for the next three days of arena operation

Submit report to EFD within 5 days that include:
• Explanation of why corrective action was necessary
• A description of the immediate corrective actions taken
• A record of all air quality tests for above
• An action plan to prevent a recurrence

Use this side of when CO is over 83 ppm or NO2 is over 2.0 ppm

Take Corrective Action
• Increase ventilation
• Suspend use of all internal combustion equipment

Test air quality again in 5 minutes

CO over 40 ppm or NO2 over 0.5 ppm for over hour

Or

CO over 20 ppm or NO2 over 0.3 ppm for two hours

Evacuate the arena
Refer to Evacuation Procedure Flow Chart

Continue Corrective Action

Evacuate the arena
Refer to Evacuation Procedure Flow Chart

How to use this flow chart

This flow chart is used when the results of an initial air test show CO over 20 ppm or NO2 over 0.3 ppm. When CO us over 83 ppm or NO2 is over 2.0 ppm, then proceed down the right hand side of the chart. When initial air test shows CO =31-83 ppm or NO2 = 0.4-2.0 ppm, then proceed down the left hand side of the chart.

During the corrective action process, a series of air measurements are required (shown in center diamond). You must retest the air every twenty minutes until acceptable air quality is obtained. If CO is over 40 ppm or NO2 is over 0.6 ppm for more than 60 consecutive minutes, then evacuate the arena. If the CO and NO2 levels fall below these levels at any time during the 60 consecutive minutes, then the clock starts over. The same process is used to determine the 120 minute evacuation levels.

If at any point in the follow-up testing procedures CO is over 83 ppm or NO2 is over 2.0 ppm, then immediately move to the top right side of the chart.