JOHNSON ICE RINK IAQ ACTION LEVELS & RESPONSES

FIRST LEVEL RESPONSE

Correction Action Levels (CAL) Exceeded
(single air sample >30 ppm CO and/or
≥0.5 ppm NO₂)

- Implement Immediate Corrective Measures
  - Increase rink ventilation (rink staff call
    Operations Center and request that all three
    air handlers and all three return fans are
    turned on)
  - Rink staff stop operating Zamboni or
    edger
  - Rink staff notify DAPER supervisor or
    manager on-duty
  - Rink staff continue taking air samples every
    20 minutes until CO & NO₂ are below CAL

SECOND LEVEL RESPONSE

Notification Action Levels (NAL) Exceeded
(single air sample >60 ppm CO and/or
≥1 ppm NO₂;
or six consecutive samples
>30 ppm CO and/or ≥0.5 ppm NO₂)

- Implement Immediate Corrective Measures
  (at left)
  - Rink staff will request that the Operations
    Center page the EHS On-call Rep
  - Supervisor or manager on-duty needs to notify
    the following agencies within the time periods
    specified (contact info is in Log Book at rink):
    - Cambridge Fire Department (CFD) within
      one hour.
    - Cambridge Public Health Department
      within 24 hours
    - Massachusetts Department of Public
      Health within 24 hours
  - EHS/IHP On-call Rep should report to scene
  - EHS/IHP On-call Rep notifies L. DiBerardinis
    and/or W. Van Schalkwyk to let them know
    that the above agencies were (or need to be)
    notified

THIRD LEVEL RESPONSE

Evacuation Action Levels (EAL) Exceeded
(single air sample >125 ppm CO and/or
≥2 ppm NO₂)

- Implement Immediate Corrective Measures
  (at far left) AFTER Evacuation AND:
  - Rink staff pull fire alarm pull station to
    evacuate rink and call CFD to scene
  - Rink staff contact supervisor or manager on-
    duty to inform him/her that rink was evacuated
  - Rink staff or supervisor/manager on-duty has
    Operations Center page EHS On-Call Rep
  - Supervisor or Manager On-Duty places
    telephone calls to the following agencies to
    notify of the exceedance(s) and evacuation:
    - Cambridge Public Health Department
      within 2 hours
    - Massachusetts Department of Public
      Health within 2 hours
  - EHS/IHP On-call Rep should report to scene
  - EHS/IHP On-call Rep notifies L. DiBerardinis
    and/or W. Van Schalkwyk to let them know
    that the rink was evacuated and above
    agencies were (or need to be) notified

The main role of the EHS/IHP On-Call Rep is to provide technical support and to verify that the proper responses and agency notifications have been made by rink staff and the manager/supervisor on-duty. For instance, the EHS/IHP On-Call Rep may be able to identify a monitoring equipment failure that has lead to false positive readings of CO and NO₂. The EHS/IHP On-Call Rep can also make sure the manager/supervisor on-duty has remembered to make the proper agency notifications within the allocated time periods.

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