Purpose

The purpose of this Assessment Record is to assess and respond to potential exposure of Outdoor Workers to indirect Wild Fire Smoke.

Instructions

Please complete one Daily Assessment Record for each BC Air Quality Health Index Measurement and document the actions taken to reduce the potential exposure to Outdoor Workers. A revised form will be required, if there are rapidly changing conditions with the nature of wildfire smoke.

Stage Processes

Stage 1 - Triggered by the report of indirect Wild Fire smoke in the work area. In this stage, the BC Air Quality Health Index (<http://www.env.gov.bc.ca/epd/bcairquality/data/aqhi-table.html>) will be used to document your local measurements.

Stage 2 - Dose measurement; determined by the Intensity of the Workload and Duration of work time in Table 2.

Stage 3 - Recommended action response based upon the level of combined risk from the Dose and Air Quality Index levels equaling; Very High, High, Moderate or Low.

Stage 4 - Documentation of actions taken to reduce the potential exposure of Outdoor Workers from indirect Wild Fire smoke.

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**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Time:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Workplace Name & Address:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Person conducting assessment:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Location Details:**

|  |  |  |
| --- | --- | --- |
| Location # | Location Details | Workers/Jobs/Positions Exposed |
| 1 |  |  |
|  |  |  |

**Stage 1 – Air Quality Health Index –** (*Source BC Air Quality Index)*

|  |  |  |  |
| --- | --- | --- | --- |
| **Health Risk** | **Air Quality Health Index** | **Health Messages** | |
| **At Risk Population** *are Children, Elderly and People with Chronic Respiratory Conditions.* | **General Population** |
| **Low Risk** | 1-3 | **Enjoy** your usual outdoor activities. | **Ideal** air quality for outdoor activities. |
| **Moderate Risk** | 4-6 | **Consider reducing** or rescheduling strenuous activities outdoors if you are experiencing symptoms. | **No need to modify** your usual outdoor activities unless you experience symptoms such as coughing and throat irritation. |
| **High Risk** | 7-10 | **Reduce** or reschedule strenuous activities outdoors. Children and the elderly should also take it easy. | **Consider reducing** or rescheduling strenuous activities outdoors if you experience symptoms such as coughing and throat irritation. |
| **Very High Risk** | Above  10 | **Avoid** strenuous activities outdoors. Children and the elderly should also avoid outdoor physical exertion. | **Reduce** or reschedule strenuous activities outdoors, especially if you experience symptoms such as coughing and throat irritation. |

Refer to the BC Provincial Air Quality Health Index for assessing the forecasted health risks to outdoor staff in your region; <http://www.env.gov.bc.ca/epd/bcairquality/data/aqhi-table.html>

**Stage 2 – Intensity and Duration of Work Performed Outside = Dose***(Source: ACGIH Screening Criteria for Heat Stress Exposure)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Workload Level** |  | **0 – 2 Hrs.** | **2 – 4 Hrs.** | **4 – 6  Hrs.** | **6 – 8 Hrs.** | **+8 Hrs.** |
| **Very Heavy** - very intense activity at fast to maximum pace | **High** |  |  |  |  | **High** |
| **Heavy** - pick and shovel work, digging, carrying, pushing/pulling heavy loads; walking at fast pace |  |  |  |  |  |  |
| **Moderate** - walking about with moderate lifting and pushing or pulling; walking at moderate pace |  |  | **Moderate** |  |  |
| **Light** - sitting or standing to control machines; performing light hand or arm work |  |  |  |  |  |
| **Rest** - sitting (quietly or with moderate arm movements) | **Low** | **Low** |  |  |  |  |
|  |  | **Low** |  | | | **High** |

**Stage 3 – Response Actions Based upon Dose vs Air Quality Health Index**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dose vs Air Quality Health Index | | | | |
| Dose |  | | | |
| High (3) | 4 | 5 | 6 | 7 |
| Moderate (2) | 3 | 4 | 5 | 6 |
| Low (1) | 2 | 3 | 4 | 5 |
|  | Low (1) | Moderate (2) | High Risk (3) | Very High Risk (4) |
|  | Air Quality Health Index | | | |
|  | | | | |
| Very High = 7 - Reschedule outdoor work activities and determine actions i.e. PPE | | | | |
| High = 5 - 6 - Reduce activities and temporarily relocate staff with chronic conditions | | | | |
| Moderate = 4 - Normal with the exception of staff with symptoms | | | | |
| Low = 1 - 3 - Normal Activities | | | | |

**Stage 4 – Documentation of Actions**

|  |  |
| --- | --- |
| Location | Comments |
| 1 |  |
| 2 |  |

**\*Sample Response Actions** *(each Organization will need to determine their specific actions):*

1. Low – Organizational outdoor activities/operations continue as per normal.
2. Moderate – Organizational outdoor activities/operations continue as per normal; with the exception of staff with symptoms such as coughing and throat irritation.
3. High – Organizations to consider reducing outdoor activities/operations and temporarily relocate staff with reported chronic conditions and reschedule programs involving patrons such as children and the elderly.
4. Very High – Regarding operational work, that is required outdoors the Organization will determine actions, which may include the implementation of N95 or N100 Respirators with accordance of their Respiratory Protective Program and/or reschedule outdoor activities.