

Revision: New IssueDate of Issue: July 15, 2019Page: 1 of 5

# **Heat Stress Policy**

# Purpose

Heat exposure may occur in many workplaces. For outdoor employees, direct sunlight is the main source of heat. Humidity in workplaces also contributes to heat stress. This policy was designed to outline actions the Township of North Huron will take to protect employees from illness during extreme heat working conditions.

The Township of North Huron will make all reasonable efforts to protect their employees from conditions that might cause heat stress.

The Township of North Huron recognizes the potential problems caused by high temperatures in the workplace.

The Department Heads/Supervisors of outdoor employees will monitor the temperature and humidity where the employees are working on days where excess heat and humidity are forecasted/observed.

# Definitions

• **Heat Stress** – a general name for several medical conditions such as heat exhaustion, heat cramps, heat stroke caused by working in areas with extreme heat.

# Responsibilities

# **Department Heads/Supervisor**

- Educate/communicate with employees, the signs and symptoms of heat stress and how to react if they themselves or another employee appears to be experiencing difficulty working in the heat.
- Remind employees to drink cool water frequently and not just when they are thirsty.
- Encourage employees to wear clothing that is loose fitting, tight woven. Encourage the use of a head covering and the clothing be light in colour to reflect the heat rather than absorb it.
- Ensure employees become acclimatized to the heat.
- Provide air conditioned rest areas and cool work areas where possible.
- Where possible, increase air movement by opening doors or windows.



- If employees must work outside, caution employees to avoid direct sunlight. Encourage employees to apply sunscreen to all sun exposed areas.
- Assist with the investigation of heat stress related events.
- Implement recommendations and corrective actions that are determined when heat stress investigations take place.

# Employee

- Participate in the training/communication of heat stress.
- When extreme hot weather conditions exist, drink water every 20 minutes, not just when thirsty.
- Wear appropriate clothing and head covering.
- Follow Department Head/Supervisor recommendations for becoming acclimatized to the heat.
- Avoid direct sunlight as possible.
- If you have pre-existing medical conditions that may potentially contribute to heat stress immediately notify your Department Head/Supervisor.
- Notice the signs and symptoms of heat stress on yourself and others and immediately notify your Department Head/Supervisor.
- Apply sunscreen when applicable.
- Talk to your Department Head/Supervisor about any concerns you may have regarding heat stress.

# Procedure

- When an Environment Canada Humidex issues an advisory (air temperature exceeding 30 degrees Celsius and Humidex exceeding 40 degrees Celsius), the following contingency plan will be put into place. The goal is to prevent an employee's core temperature from rising above 38 degrees Celsius. This may include measures such as:
  - Engineering Controls:
    - Increase air movement with fans.
    - Provide air-conditioned rest areas.
    - Provide cool work areas.
  - Administrative Controls:
    - Increase the length or frequency of breaks.
    - Review job tasks being conducted and determine if it is possible to reschedule jobs to another time in the day when the temperature is reduced



or where possible consider reduction of job task requirements to help reduce overexposure or overexertion in hot temperatures.

- As able, provide cool drinking water near employees and remind them to drink one cup approximately every 20 minutes.
- Train employees to recognize the signs and symptoms of heat stress and start a "buddy system" to help ensure symptoms are noticed. People are not likely to notice their own symptoms.
- Investigate heat related incidents.
- Personal Protective Equipment:
  - Light summer clothing should be worn to allow free air movement and sweat evaporation.
  - Shirts may be short sleeved.
  - When outdoors, other clothing which will protect the skin from direct sunlight.
- The plan will be reviewed and monitored with all employees on day(s) where Heat Stress is a factor in the Workplace.
- Employees experiencing symptoms of heat stress (see below for examples) or witnessing a fellow employee experiencing the symptoms of heat stress, must report to their Department Head/Supervisor immediately to obtain the proper first aid/medical attention as required.
- Generally, the hot weather hazards are between May 1 and September 30 of each year.
- For Humidex Readings in your area...listen to local weather station and/or go to <a href="http://www.weatheroffice.ec.gc.ca/canada\_e.html">http://www.weatheroffice.ec.gc.ca/canada\_e.html</a>

	Humidex 1	Response		
	25 – 29	supply water to workers on an "as needed" basis		
	30 – 33	post Heat Stress Alert notice; encourage workers to drink extra water; start recording hourly temperature and relative humidity		
	34 – 37	post Heat Stress Warning notice; notify workers that they need to drink extra water; ensure workers are trained to recognize symptoms		
	38 – 39	work with 15 minutes relief per hour can continue; provide adequate cool (10-15°C ) water; at least 1 cup (240 mL) of water every 20 minutes worker with symptoms should seek medical attention		
	40 – 41	work with 30 minutes relief per hour can continue in addition to the provisions listed previously;		
	42 - 44	if feasible, work with 45 minutes relief per hour can continue in addition to the provisions listed above.		
	45 or over	only medically supervised work can continue		



Revision	: New Issue
Date of Issue	: July 15, 2019
Page	: 4 <b>of</b> 5

	Cause	Symptoms	Treatment	Prevention
Heat Rash	Hot humid	Red bumpy rash with severe	Change into dry clothes	Wash regularly to keep
	environment; plugged	itching.	and avoid hot	skin clean and dry.
	sweat glands.		environments. Rinse skin	
			with cool water.	
Sunburn	Too much exposure to	Red, painful, or blistering	If the skin blisters, seek	Work in the shade;
	the sun.	and peeling skin.	medical aid. Use skin	cover skin with
			lotions (avoid topical	clothing; apply skin
			anesthetics) and work in	lotions with a sun
			the shade.	protection factor of at
				least 15. People with
				fair skin should be
				especially cautious.
Heat Cramps	Heavy sweating drains	Painful cramps in arms, legs	Move to a cool area;	Reduce activity levels
liour crumps		or stomach, which occur	loosen clothing and drink	and/or heat exposure.
	which cannot be		cool salted water (1 tsp.	Drink fluids regularly.
	replaced just by	home.	salt per gallon of water) or	
	1 5 5	Heat cramps are serious	commercial fluid	check on each other to
	8 ··· ·····		replacement beverage. If	help spot the symptoms
			the cramps are severe or	that often precede heat
			don't go away, seek	stroke.
			medical aid.	
Fainting	Fluid loss and	Sudden fainting after at least		Reduce activity levels
amung	inadequate water	5	ATTENTION. Assess	and/or heat exposure.
		moist skin; weak pulse.	need for CPR. Move to a	Drink fluids regularly.
	intuite.	moist skin, weak puise.	cool area; loosen clothing;	
			make person lie down; and	
			if the person is conscious,	
			offer sips of cool water.	that often precede heat
			Fainting may also be due	stroke.
			to other illnesses.	Strone.
Heat	Fluid loss and		GET MEDICAL AID.	Reduce activity levels
Exhaustion			This condition can lead to	
	water intake causes a	38°C; weak pulse; normal or		
			Move the person to a cool	Employees should
		is tired and weak, and has	shaded area; loosen or	check on each other to
		nausea and vomiting; is very	· · · · · · · · · · · · · · · · · · ·	help spot the symptoms
		thirsty; or is panting or	provide cool water to	that often precede heat
		breathing rapidly; vision	drink; fan and spray with	stroke.
		may be blurred.	cool water.	
Heat Stroke		High body temperature (over		Reduce activity levels
		41°C) and any one of the	This condition can kill a	and/or heat exposure.
	and salt reserves, it	following: the person is	person quickly. Remove	Drink fluids regularly.
			excess clothing; fan and	Employees should
			spray the person with cool	
			water; offer sips of cool	help spot the symptoms
			water if the person is	that often precede heat
	2		conscious.	stroke.
		pass out and have		
		convulsions		
	canaustion.		l	

# Heat Stress Hazards – Signs and Symptoms



Revision: New IssueDate of Issue: July 15, 2019Page: 5 of 5

### **Indirect Heat-Related Health Effects**

- <u>*Reduced Work Performance:*</u> tired, fatigued employees perform with reduced accuracy, efficiency.
- *Increased Accidents:* tired, fatigued employees are more susceptible to accident and injury.
- <u>*Reproductive Problems:*</u> heat has been shown to reduce both male and female fertility and can be a problem for the fetus.
- <u>*Heart/Lung Strain:*</u> if you already have heart, lung, kidney or circulatory problems; heat stress is an added strain on your body which in severe heart, lung, kidney or circulatory problems; heat stress is an added strain on your body which in severe situation may precipitate serious episodes of acute situation may precipitate serious episodes of acute problems.

### Training

Training will be conducted regularly and as needed during hot weather months. The Township of North Huron will communicate this policy and review with employees the above Heat Stress Hazards – Signs and Symptoms.

### **Required Forms**

N/A

# Evaluation

This policy will be reviewed annually.

# **Revision History of this Policy**

N/A

# Legislation/Standards/Regulations

Ontario Occupational Health and Safety Act, R.S.O. 1990 Industrial Regulation 851