


# Yellowknife Emergency Response Plan



 <p><b>NORTHWEST TERRITORIES POWER CORPORATION</b> <i>Empowering Communities</i></p>	<p><b>Health &amp; Safety Management System Form:</b> Yellowknife Emergency Response Plan</p>	Page 1 of 21
	<p><b>Monitor:</b> Director, Health, Safety &amp; Environment</p>	Form #: 11.2

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## 1 Site Details

### 1.1 Community Information

Yellowknife (62° 30'N and 114° 29'W) is located on the west shore of Yellowknife Bay on the North Arm of Great Slave Lake. The community has a population of 21,747 (2020 Census

Yellowknife is accessible by air year round from Edmonton and Calgary and has daily air service to many northern communities. The community is also accessible by road year round with the exception of break-up and freeze-up of the Mackenzie River near Fort Providence.

### 1.2 Site Description

The Facility is located on the north end of Yellowknife on the north shore of Jackfish Lake (real name Stock Lake) and is surrounded with a chain-link fence. Access to the Facility is through a double gate located on the north side of the property near the Ruston Plant, a man gate and a double gate on the south side of the property, and a man gate and an automatic vehicle gate in the southeast corner of the property (primary access) (see Figure 1.2.1).

The arrangement of buildings from east to west along the south side of the property is as follows: the office building, the Cat Plant, the EMD Plant, the K-Plant (the three plants are joined by covered walkways), the warehouse, and the line shop. There is a water pump house located south of the K-Plant, a fuel pump house north of the K-Plant, and a storage shed northeast of the line shop. On the north side of the property from east to west sits three mobile genset units (EM 8, 9 and 10), a 90,000 L horizontal fuel tank, the substation, the Ruston Plant, a drum storage berm, the tank farm, and the line yard. Pole storage is located outside the fence north of the Ruston Plant.

**Figure 1.2.1 – Jackfish Plant Site Diagram**



**Figure 1.2.2 – Jackfish Plant**



## 2 Emergency Contact List

### 2.1 List of NTPC Personnel & Contacts

- A list of contact information for NTPC personnel to be used only in the event of an emergency is available on the NTPC Intranet (i.e. PowerLine) on the Health & Safety Management System page next to Element 11  
(<http://powerline.ntpc.com/file/1585/download?token=kBBI6kwn>)

### 2.2 List of Local Emergency Contacts

- The following parties may be of assistance in responding to an emergency.

Contact	Phone
<b>Emergency</b>	9-1-1
<b>NTPC System Control</b>	867-669-3370
<b>RCMP</b>	867-669-1111
<b>Fire Department</b>	867-873-2222
<b>Stanton Hospital</b>	867-669-4111
<b>Ambulance</b>	867-873-2222
<b>City of Yellowknife</b>	867-920-5600
<b>WSCC</b>	1-800-661-0792
<b>24-Hour Spill Line</b>	867-920-8130
<b>ENR Fire Operations</b>	877-698-3473
<b>GNWT Emergency Measures Organization</b>	867-920-2303
<b>NorthwesTel</b>	867-920-3535

### 2.3 List of Third Party Contacts

- Additional heavy equipment is available within the City of Yellowknife:
  - City of Yellowknife - 867-920-5600
  - Camco Construction Ltd. – 867-873-8522
  - RTL Robinson Trucking Ltd – 867-873-6271

### 2.4 Emergency Notification Procedures

- When you call to request assistance from an emergency responder (e.g., RCMP, Fire Department, ambulance) remember to:
  - Stay calm.

- Be prepared to answer the following questions:
  - What is your name?
  - Where is the emergency located?
  - What is the emergency (e.g., fire, medical, spill, etc.)?
  - Are there any injuries?
  - How did it happen?
  - When did it happen?
- Do not hang up until instructed to do so by the dispatcher.
- You do not need to know all the answers to these questions, but quickly gather as much information as you can.
- Provide a telephone number or safe location where the emergency responders can call or meet you, and wait for the responders at the safe location.

### 3 List of Equipment Available for Response

This facility maintains the following equipment available for use in emergencies.

Equipment	Location
<b>First aid kits</b>	2 located in the B1 building 1 located in the B1 Control Room 1 located in the B1 office 1 located in the CAT plant office 1 located in the CAT plant Control Room 2 located in the EMD plant 1 located in the K Plant break room 2 located in the K Plant 1 located in each vehicle (passenger and heavy equipment) 1 located in the Rustin building 2 located in Line Shop 3 located in the Warehouse
<b>Fire extinguishers</b>	9 located in the B1 building 2 fire suppression system in the B1 building 10 located in the CAT Plant

	<p>1 C2 big fire extinguisher in the CAT Plant</p> <p>8 located in the EMD Plant</p> <p>1 C2 big fire extinguisher in the EMD Plant</p> <p>1 located in the K Plant coffee shop</p> <p>18 located in the K Plant</p> <p>1 C2 big fire extinguisher in the K Plant</p> <p>6 located in the Line Shop</p> <p>10 located at the Warehouse</p> <p>4 located in the Rustin Plant</p> <p>10 spares located at the Warehouse</p> <p>12 spares located in the Rustin Plant</p> <p>1 located in each vehicle (passenger and heavy equipment)</p>
<b>AED</b>	<p>1 located in the B1 building</p> <p>1 located in the K Plant Control Room</p>
<b>Eyewash stations</b>	<p>2 located in the CAT Plant</p> <p>2 located in the EMD Plant</p> <p>2 located in the K Plant</p> <p>1 located in the Rustin Plant</p> <p>2 located in the Warehouse</p> <p>1 located in the Line Shop</p>
<b>Sorbents</b>	<p>1 large spill kit located in the CAT plant</p> <p>1 large spill kit located in the EMD Plant</p> <p>1 large spill kit located in the K Plant</p> <p>1 large spill kit located outside next to the tank farm</p> <p>1 large spill kit located outside south of the EMD Plant</p> <p>Additional sorbent material is located in the Warehouse</p>
<b>Shovels, vacuums, and other recovery equipment</b>	<p>1 vacuum located in the CAT Plant</p> <p>1 vacuum located in the Rustin Plant</p>

	<p>1 vacuum located in the Warehouse</p> <p>2 vacuum located in the K Plant</p> <p>1 vacuum located in the line shop building</p> <p>2 water pumps located in the Warehouse</p> <p>1 located in CAT Plant</p> <p>Shovels, rakes, etc. are located in the Warehouse</p>
<b>Salvage drums and other temporary containers</b>	Located in the storage area of the yard north of the plant
<b>Self-contained breathing apparatus</b>	Available from the Warehouse
<b>Respirators</b>	Available from the Warehouse
<b>Personal protective equipment</b>	Additional PPE (goggles, rubber gloves, tyvex suites, etc.) located in the Warehouse

## 4 Spill Response

In the case of a spill of hazardous material refer to the Yellowknife Spill Response Plan. Hard copies are located at the plant and digital copies are located on the PowerLine.

(<http://powerline.ntpc.com/divisions/health-safety-environment/environment/spill-response-plans>)

## 5 Communication and Site Access Information

### 5.1 Communications

- Reliable communications are vital during an emergency response. Establish reliable communication between the Incident Commander and onsite responders as soon as possible.
- In the event of a communications outage (i.e., loss of NorthwesTel phone, cell, email service) the onsite responder shall make every effort to contact their Manager as soon as it is safe to do so. Satellite phones in the community include:
  - RCMP
- Landline and cell phone communication is available from NorthwesTel. All major buildings (plants, office, warehouse, line shop, etc.) have at least one phone.

### 5.2 Access by Road

- Yellowknife has year round road access via Highway 3.

### 5.3 Access by Air

- A 7500 ft asphalt airstrip is located in Yellowknife. Instrument flight rules (IFR) apply. Charter air services are available year round.

## 6 Medical Emergencies

### 6.1 Medical Emergency

- Ensure your own safety in the situation.
- Tend to the injured person(s) as required following first aid procedures.
- If required, contact medical services to get an ambulance to attend.
- Assist the injured person to a medical centre/hospital for treatment by a doctor.
- Remain with the injured person(s) until medical aid arrives or you have reached a medical centre/hospital.

### 6.2 Guidelines for Summoning an Ambulance

- It is important to have a plan in place to call for an ambulance if one is required. Designate one person to be the main point of contact with emergency services.
- Call 867-873-2222 to summon an ambulance in Yellowknife.
- The ambulance dispatcher will need to know:
  - it is a workplace accident
  - the complete company address (may need to include more specific directions or details)
  - site/contact telephone number
  - if first aid is attending, en route, or not available
  - description of the accident
  - number of casualties
  - are casualties conscious or unconscious
  - provide a brief description of the injuries
- It is also important to designate an individual to meet the ambulance at a predetermined location (same as given to ambulance dispatcher) to escort them to the accident area.

### 6.3 Providing Emergency First Aid Assistance

The following instructions serve as a reminder for certified Workers providing emergency assistance.

#### 6.3.1 To Give Cardiopulmonary Resuscitation (CPR) (causality is not breathing and not responsive)

- Check the person and the person's ABCs (Airway, Breathing, Circulation).
- If the person is unresponsive and not breathing normally, call EMS/9-1-1 and get an AED or have someone else do this. Place both of your hands on the centre of the person's chest.

- Do 30 chest compressions: Push deeply and steadily
- Open the airway by tilting the head back and lifting the chin.
- Place a barrier device over the person's mouth and nose, or place your mouth over the person's mouth and plug the person's nose.
- Give 2 breaths
- Repeat cycles of 30 chest compressions and 2 breaths.
- Continue CPR until an AED arrives, you are not able to safely perform CPR anymore, or more advanced care takes over.

### **6.3.2 Abdominal Thrust for Choking Causality**

- If the person cannot speak, cough, or breathe or is making a high-pitched noise, immediately begin care for choking.
- Alternate between any two of the following methods until the object comes out: back blows, abdominal thrusts, and chest thrusts. Continue providing care until the object comes out or the person begins to breathe or cough. If the person becomes unresponsive, call EMS/9-1-1 and begin CPR, starting with chest compressions.
- **BACK BLOWS**
  - From behind, place one arm across the person's chest; and
  - Bend the person forward and deliver up to five (5) firm blows between the shoulder blades
- **ABDOMINAL THRUSTS**
  - From behind, place your fist just above the belly button.
  - Give up to five (5) quick, inward and upward thrusts
- **CHEST THRUSTS**
  - From behind, place your fist in the middle of the person's chest with your thumb facing inward and place your other hand over your fist.
  - Give up to five (5) chest thrusts by pulling straight back.

### **6.3.3 To Stop Bleeding**

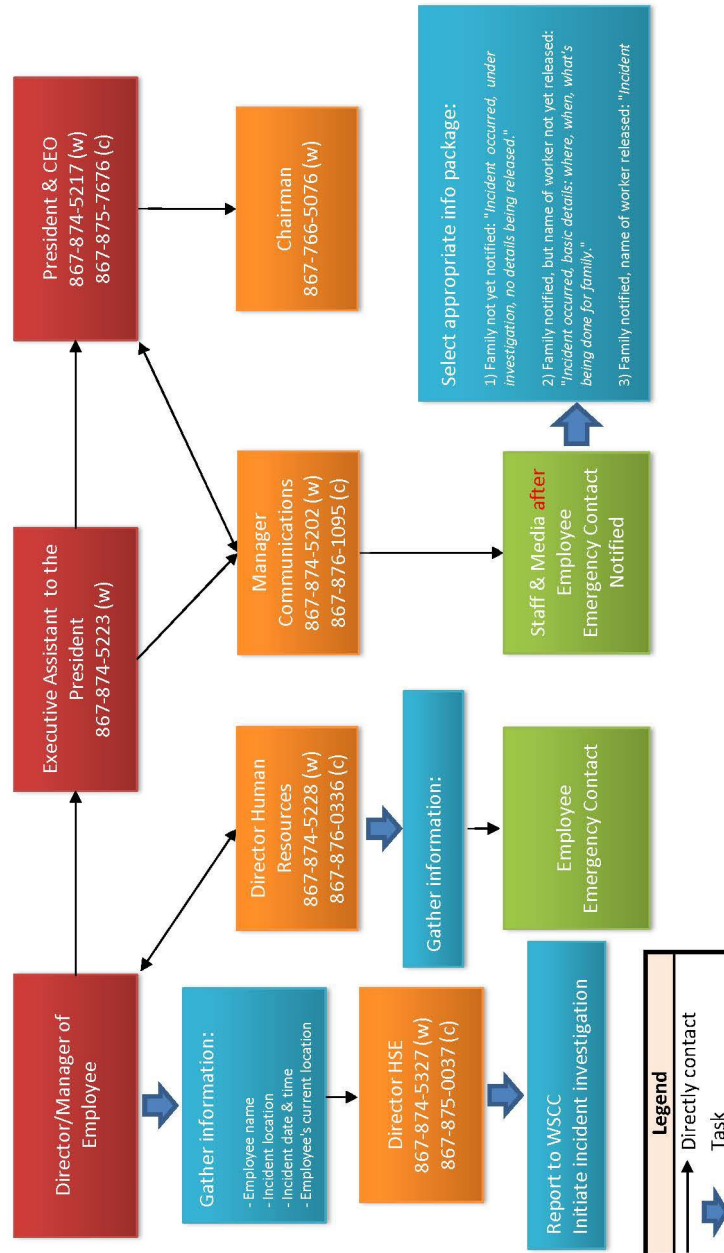
- Call medical assistance/ambulance
- Apply pressure directly onto the wound with a sterile gauze, clean handkerchief, or medical gloves
- Maintain a steady pressure
- If the casualty is bleeding from an arm or leg, elevate it
- Stay with the casualty until help arrives

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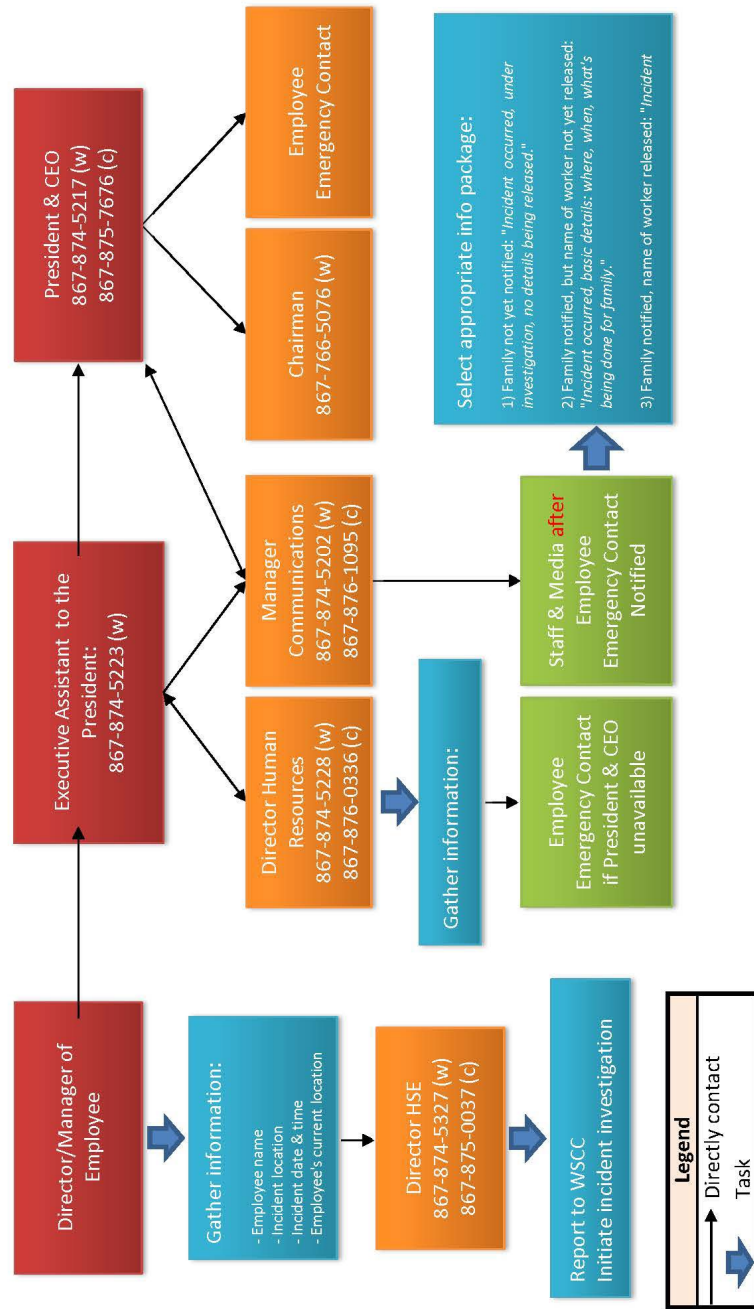
## 7 Injury Communication Protocol

- Communication of information regarding emergencies shall be done as per section 5 and is the responsibility of either the emergency response authority (i.e., Manager, Director, or President; depending on the level of emergency) or the Communications Manager.
- In the event of a serious injury to an employee while on duty, the communication protocol shown in Figure 1 shall be followed.
- In the event of the death of an employee while on duty, the communication protocol shown in Figure 2 shall be followed.

**Figure 1: Communication Flowchart for Serious Injury of Employee while on Duty**



**Figure 2: Communication Flowchart for Death of Employee while on Duty**



## 8 Building Evacuation

### 8.1 General Evacuation Procedures

When evacuating your building or work area:

- Stay calm, do not rush, and do not panic.
- Safely stop your work.
- Gather your personal belongings if it is safe to do so. (Reminder: take prescription medications out with you if at all possible; it may be hours before you are allowed back in the site/building.)
- If safe, close your office door and window, but do not lock them.
- Use the nearest safe stairs and proceed to the nearest exit.
- Proceed to the designated Muster Point.
- Wait for any instructions from emergency responders.
- Do not re-enter the building or work area until you have been instructed to do so by the emergency responders.

### 8.2 Muster Point

The Muster Point is located next to the main vehicle gate located on the east side of the property near the B1 main office building.

### 8.3 Site Warden

The Manager, Plant Operations is the Site Warden. Site Warden responsibilities include:

- In an emergency situation ensure the appropriate emergency services have been notified and brief emergency personnel on their arrival.
- Conduct annual meetings to ensure Area Wardens are prepared to respond to an emergency situation and are aware of their responsibilities.
- Ensure Area Wardens receive current employee rosters for the purpose of conducting roll calls.

### 8.4 Area Warden

Area Warden responsibilities include:

- During an evacuation conduct a search of the area to ensure that all employees have left the area before leaving the site themselves.
- Assist people who require help evacuating the site.
- Confer at the Muster Point, maintain contact with emergency personnel, conduct an employee roll call and inform employees of the situation.
- Have first aid training.

The Area Wardens for the Jackfish Plant site are as follows:

- The Plant Operator is the Area Warden for all diesel plants.
- The Manager, Plant Operations is the Area Warden for the B1 Administration Building.
- The Logistics Officer is the Area Warden for the Warehouse and Ruston Building.

- The Manager, T&D is Area Warden for the Line Shop and Yard.

## 9 Fire Emergencies

### 9.1 Fire in the Plant

- From a safe location contact the Fire Department to provide details of the situation.
- If you have been trained in the use of a portable fire extinguisher and are able to safely extinguish the fire, do so. Be sure you have a safe exit from the area and leave if one extinguisher does not put out the fire.
- If safe to do so close all fuel valves entering the plant building as well as valves on the main storage tanks.
- Evacuate the building as soon as the alarm sounds or signs of an uncontrolled fire are noticed.
- On your way out, warn others nearby.
- Move away from fire and smoke. Close doors and windows if time permits and safe to do so.
- Touch closed doors before opening. Do not open them if they are hot.
- Use stairs only; do not use elevators.
- Move well away from the building and go to the designated Muster Point.
- Do not re-enter the building or work area until you have been instructed to do so by the emergency responders.
- For information on fire prevention refer to *SWP 1.04: Fire Prevention*.

### 9.2 Using a Fire Extinguisher

- If you have been trained and it is safe to do so, you may fight small, contained fires with a fire extinguisher.
- Fire extinguisher instructions:
  - **P** Pull safety pin from handle.
  - **A** Aim at base of fire.
  - **S** Squeeze the trigger handle.
  - **S** Sweep from side to side at base of fire.
- For proper use of a fire extinguisher refer to *SWP 1.22: Fire Extinguishers*.

### 9.3 If Trapped in a Room

- If possible wet and place cloth material around or under the door to prevent smoke from entering the room
- Close as many doors as possible between you and the fire
- Signal someone outside for help (e.g., phone, yelling, etc.)

### 9.4 If Caught in Smoke

- Drop to hands and knees and crawl toward exit

- Stay low, as smoke will rise to ceiling level
- Hold your breath as much as possible
- Breathe shallowly through nose, and hold a shirt or towel over your mouth and nose to act as a filter

#### **9.5 If Forced to Advance through Flames**

- Hold your breath
- Move quickly
- Cover your head and hair
- Keep your head down and your eyes closed as much as possible

## **10 Forest Fires**

### **10.1 Forest Fires near a Plant Site**

- A forest fire that threatens the City of Yellowknife could result in damage to the power plant and the distribution system.
- Fire could impact the generation and/or distribution of power at the Yellowknife power plant and also impact transportation to and from site.
- The lead agency for response to forest fires in the NWT is the Government of the Northwest Territories Department of Environment and Natural Resources, Fire Operations Division.
- In the event of a forest fire that threatens the City of Yellowknife the lead agency will be the Territorial Emergency Response Committee (TERC).
- If workers are exposed to high levels of smoke, workers shall use appropriate respiratory protection as per *SWP: 4.09: Respiratory Protective Equipment*.
- If possible move fuel sources away from the plants.
- If possible move electrical equipment to metal storage containers (e.g., sea-cans, open-top drums, etc.).
- In forest fire situations that threaten communities, unless directed by TERC, NTPC shall keep generation and distribution systems energized for as long as possible. This will aid emergency services in their actions, communications and resources. The local power plant shall remain operational and manned until TERC authorizes the shutdown.
- TERC makes the recommendation as to whether evacuation of NTPC staff from the plant site is required. Evacuation will be coordinated by TERC.
- NTPC shall monitor conditions to ensure employees are not exposed to unreasonable risks while maintaining operations.
- Immediately report any damages or personal injury to the responsible Manager.
- If evacuation of the site is necessary all fuel valves shall be closed and the plant shut down.

## 11 Earthquake

### 11.1 Workers inside a Building

- Duck under the nearest sturdy object and hold onto it until the shaking stops. If you are not near a sturdy object, make yourself as small as possible and cover your head and neck.
- If you stand in a doorway, brace yourself against the frame and watch out for a swinging door or other people.
- Avoid windows, filing cabinets, bookcases and other heavy objects that could fall or shatter.
- Stay under cover until the shaking stops and leave the building once safe to do so.

### 11.2 Workers outside a Building

- Move away from trees, signs, buildings, electrical poles and wires.
- Protect your head with your arms from falling debris.
- Move away from fire and smoke.
- Proceed to the Muster Point if safe, or proceed to a pre-designated alternate assembly area.

## 12 Severe Storms

- Heavy rainfall or snowfall, high winds, and/or heavy icing conditions can result in injury hazards, building and equipment damage, major power outages, communications failures, and road washouts.
- If severe weather conditions are forecasted or experienced, local staff shall:
  - Keep abreast of forecasts and storm developments;
  - Report conditions to the responsible Manager.
  - Do not undertake work or travel if conditions are too hazardous; and
  - Immediately report any storm damage or personal injury to the responsible Manager.

## 13 Floods

- Flood conditions can result in injury hazards, building and equipment damage, power outages, communications failures, and road washouts.
- If flooding is forecasted or experienced, local staff shall:
  - Report conditions to the responsible Manager.
  - Close valves to the main fuel tanks. Leave day tank valve open for use.
  - Move, seal and/or secure hazardous materials to prevent spills.
  - Move electrical equipment (e.g., breakers) off the floor to prevent damage;
  - Do not undertake work or travel if conditions are too hazardous;
  - Maintain communication with emergency services.

- In the event that flooding threatens the City of Yellowknife the lead agency will be the Territorial Emergency Response Committee (TERC).
- Unless directed by TERC, NTPC shall keep generation and distribution systems energized for as long as possible. This will aid emergency services in their actions, communications and resources. The local power plant shall remain operational and manned until TERC authorizes the shutdown.
- TERC makes the recommendation as to whether evacuation of NTPC staff from the plant site is required. Evacuation will be coordinated by TERC.
- NTPC shall monitor conditions to ensure employees are not exposed to unreasonable risks while maintaining operations.
- Immediately report any damages or personal injury to the responsible Manager.
- If evacuation of the site is necessary all fuel valves shall be closed and the plant shut down.

## **14 Bomb Threats and Suspicious Parcels**

### **14.1 Person Receiving a Bomb Threat by Phone**

- If a telephone bomb threat is received, the person receiving the call should:
  - Keep the caller on line as long as possible in order to gather as much information as possible. Ask caller to repeat message. Try to record every word spoken by caller.
  - If caller does not indicate the location of the bomb or time of detonation, ask caller for this information.
  - Listen closely to voice: sex, voice quality, accent, or speech impediment.
  - Pay particular attention to background noises such as motors running or music that could give a clue to location from which the call is made.
  - Notify the Plant Superintendent/Operator, who shall then notify:
    - RCMP
    - Manager
    - HSE Director
- Evacuate the building, under supervision of the responsible Manager, as soon as possible. If necessary and under the discretion of the responsible Manager, pull the fire alarm to ensure all employees evacuate the building as soon as possible.

### **14.2 Characteristics of Suspicious Packages and Envelopes**

- Look for inappropriate or unusual labeling characteristics, which may include:
  - Excessive postage
  - Strange return address or no return address
  - Incorrect titles or title without a name
  - Not addressed to a specific person
  - Marked with restrictions such as "Personal," "Confidential," or "Do not x-ray"
  - Marked with any threatening language

- Postmarked from a city or other location that does not match the return address.
- Look for unusual pack appearance characteristics, which may include:
  - Powdery substance felt through or appearing on the package or envelope
  - Oily stains, discolorations, or odor
  - Lopsided or uneven envelope
  - Excessive packaging material such as masking tape, string, etc.
- Look for other suspicious signs, which may include:
  - Excessive weight
  - Strange noises
  - Protruding wires or aluminum foil

#### **14.3 Person Finding a Suspicious Parcel**

- Under no circumstances will any employee attempt to touch, move or dispose of a suspicious object on NTPC premises.
- Do not shake or empty the contents of any suspicious package or envelope.
- Do not carry the package or envelope, show it to others or allow others to examine it.
- Put the package or envelope down on a stable surface; do not sniff, touch, taste, or look closely at it or at any contents which may have spilled.
- Alert others in the area about the suspicious package or envelope. Leave the area, close any doors, and take actions to prevent others from entering the area. If possible, shut off the ventilation system.
- Wash hands with soap and water to prevent spreading potentially infectious material to face or skin. Seek additional instructions for exposed or potentially exposed persons.
- Notify your Manager and await instructions. If told to evacuate, follow specific instructions, as the usual evacuation procedures may not apply.

## **15 Powerline Down Where Accessible**

At NTPC the safety of employees, contractors, and the public is of paramount importance. All fallen powerlines shall be treated as live and therefore dangerous.

Where an NTPC powerline is down and accessible to the public NTPC shall effect an immediate and unhindered response in accordance with the following directives:

**1. DO NOT GO WITHIN 10 METERS OF THE DOWNED POWERLINE**

**2. ATTENDANT:**

- a. Contact the RCMP, fire department, or another NTPC employee to provide/act as the attendant.
- b. Post an attendant at the site. The attendant shall ensure no people enter the secure area except qualified NTPC personnel.

- c. Barricades and/or caution tape may be used in addition to the attendant to keep people away from the hazard.
  - d. The attendant shall make every reasonable effort to remain in place until the hazard is controlled.
3. **SWITCHING:**
  - a. Qualified Workers will perform the necessary switching to de-energize the line as per the NTPC Work Protection Code.
4. **NOTIFICATION:**
  - a. Notify the Generation Support Manager of the incident.
  - b. The Generation Support Manager shall notify the Transmission and Distribution Division who shall send Workers to repair the line.
5. **RETURN TO SERVICE**
  - a. Once the line is repaired a qualified Worker will re-energize the line.

### Development

Name	Position	Date
Prepared by: J. Clark	Environmental Analyst	Jan. 25, 2017
Reviewed by: R. Sunderland	Plant Manager, Operations	Feb. 01, 2017
Approved by: E. Smith	Director, Health, Safety & Environment	Feb. 03, 2017

### Revision History

#	Revised Sections	Description of Revisions	Revised by (name, position)	Approved by (name, position)	Issue Date
01	2.2, 3, 6.1, 9.3	Update to declaration guidelines, communication and site/area warden	J. Clark, Env. Analyst	E. Smith Director HSE	4/25/18
02	2.2	Included 9-1-1	T. Perkins, Env, Analyst	J. Clark, Senior HSE Policy Coordinator	04/24/20
03	6.3	Updated to latest Red Cross standards	K. Robert H&S Coordinator	E. Smith Director HSE	02/10/21
04	-	Review all	T. Perkins, Env. Analyst	D. Dewar, Director HSE	02/02/22
05					
06					
07					