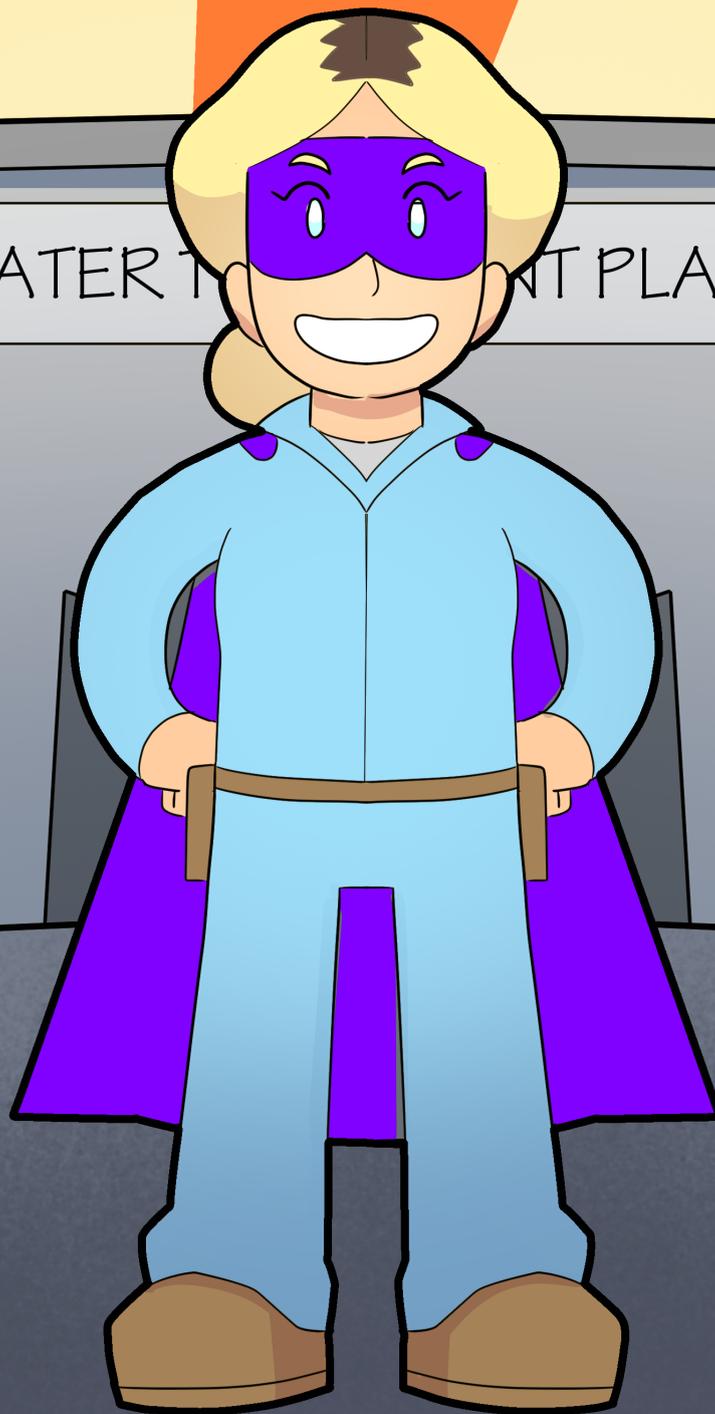


THE ADVENTURES OF **MECHANIC MELANIE**

AND THE PROBLEM GENERATOR





This comic is the tenth in a series of comic books created by First Nations Technical Services Advisory Group to teach students in grades 3-6 about the superheroes that make and keep our water safe to use.

PDF copies of this booklet and other educational materials are available from TSAG.

Telephone: 780 486 8601

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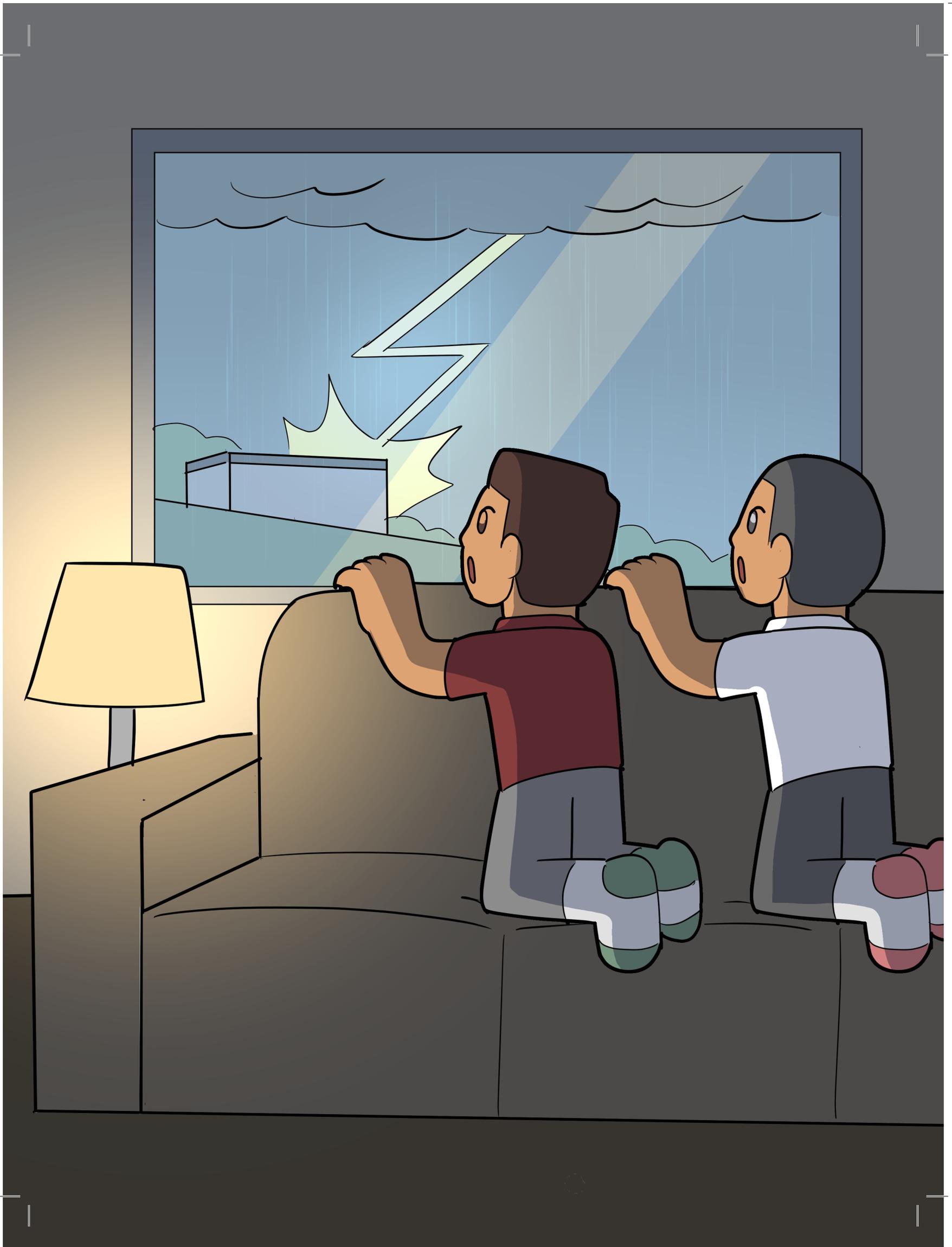
Address: 18232-102 Ave, Edmonton, Alberta. T5S 1S7.

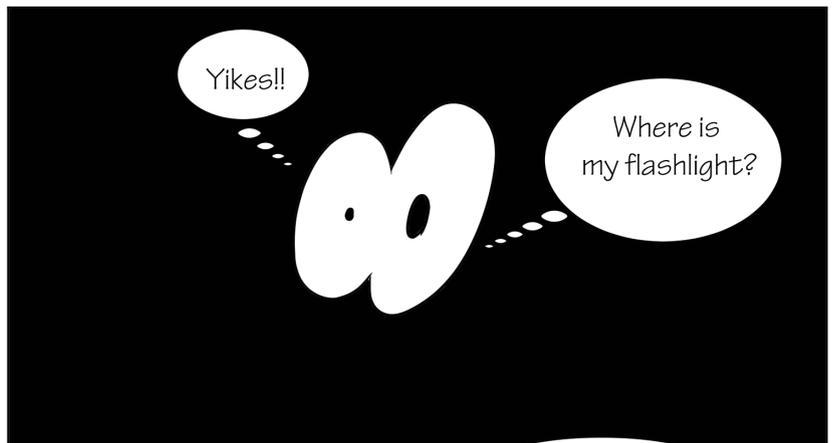


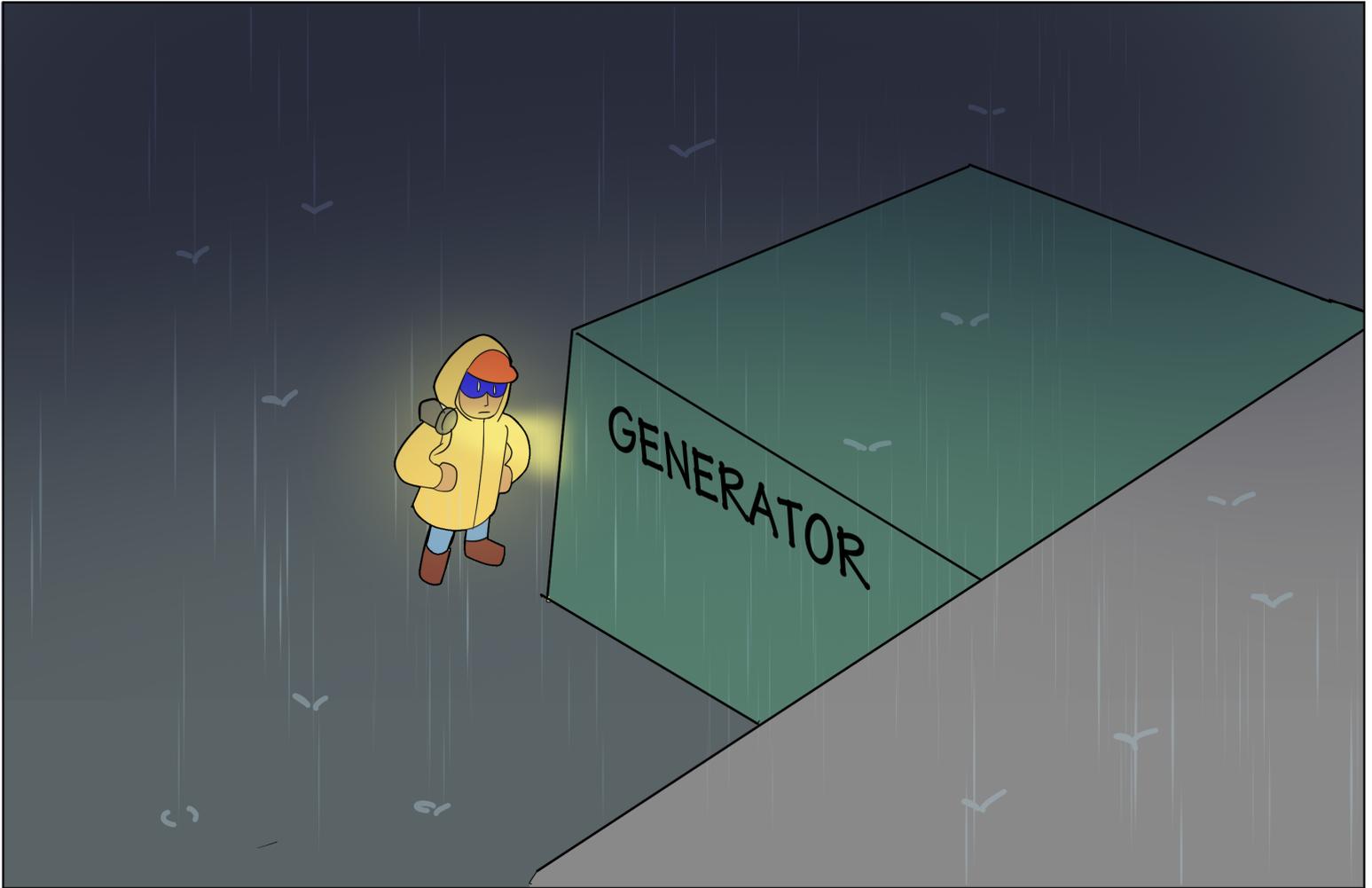
Alberta has many Summer storms. Sometimes the storms just bring heavy rain, but other times they bring thunder and lightning, high winds and even tornados.

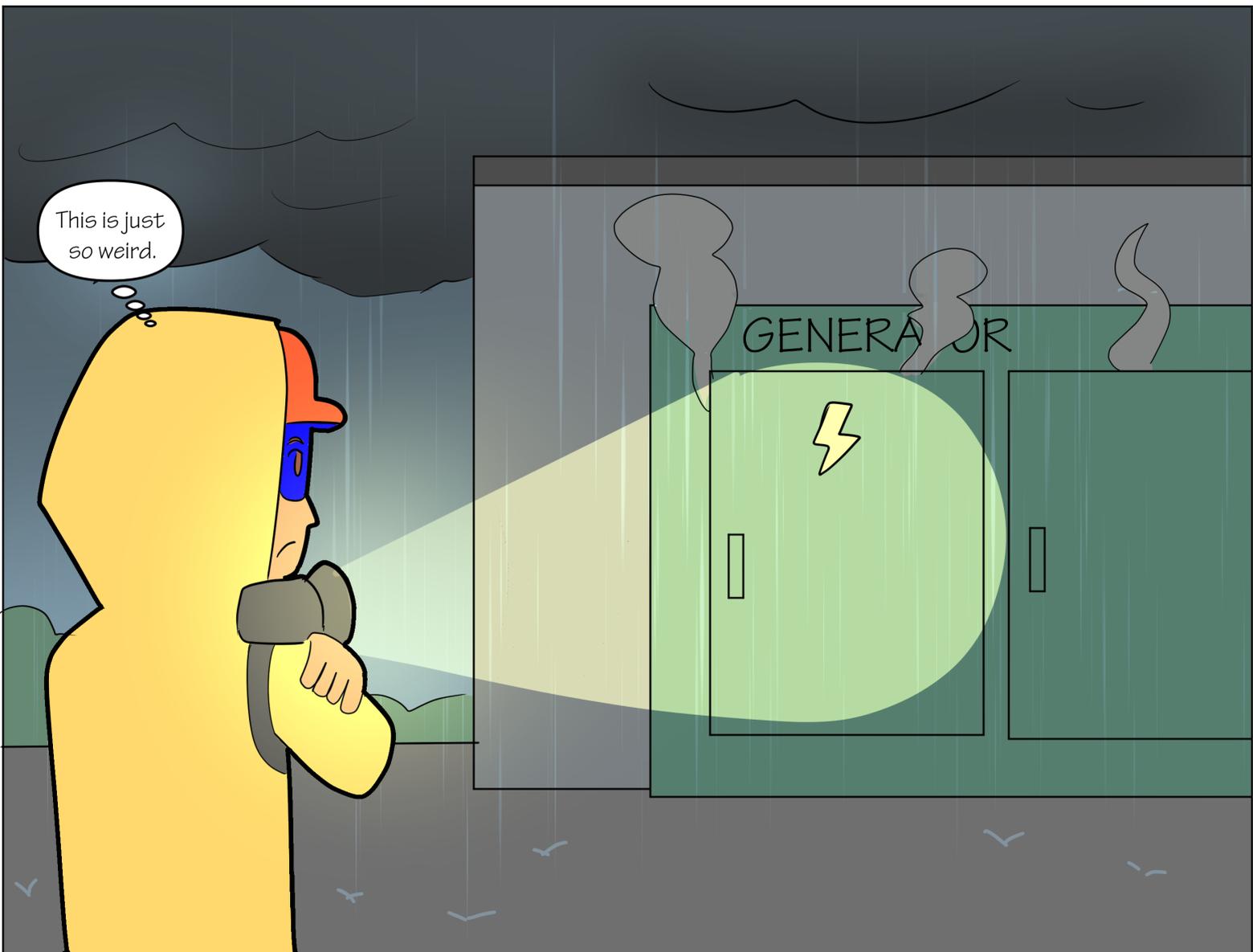
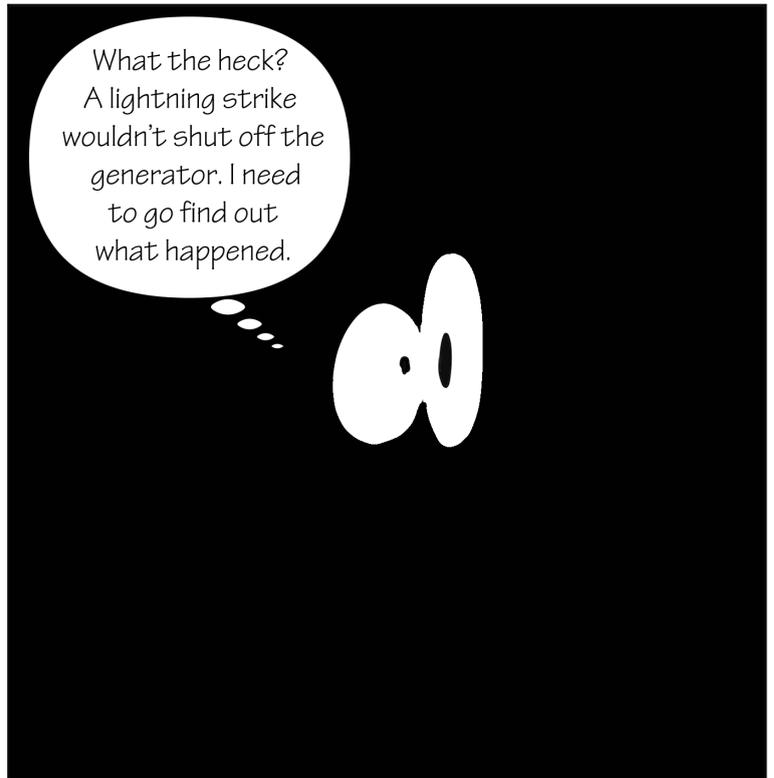
When these kinds of storms happen, they can cause lots of damage.













Oh no, it looks like the generator is broken. I better call Mechanic Melanie.



Afternoon Mechanic Melanie. I'm surprised you are at work with this storm. I guess you guys got power over there.

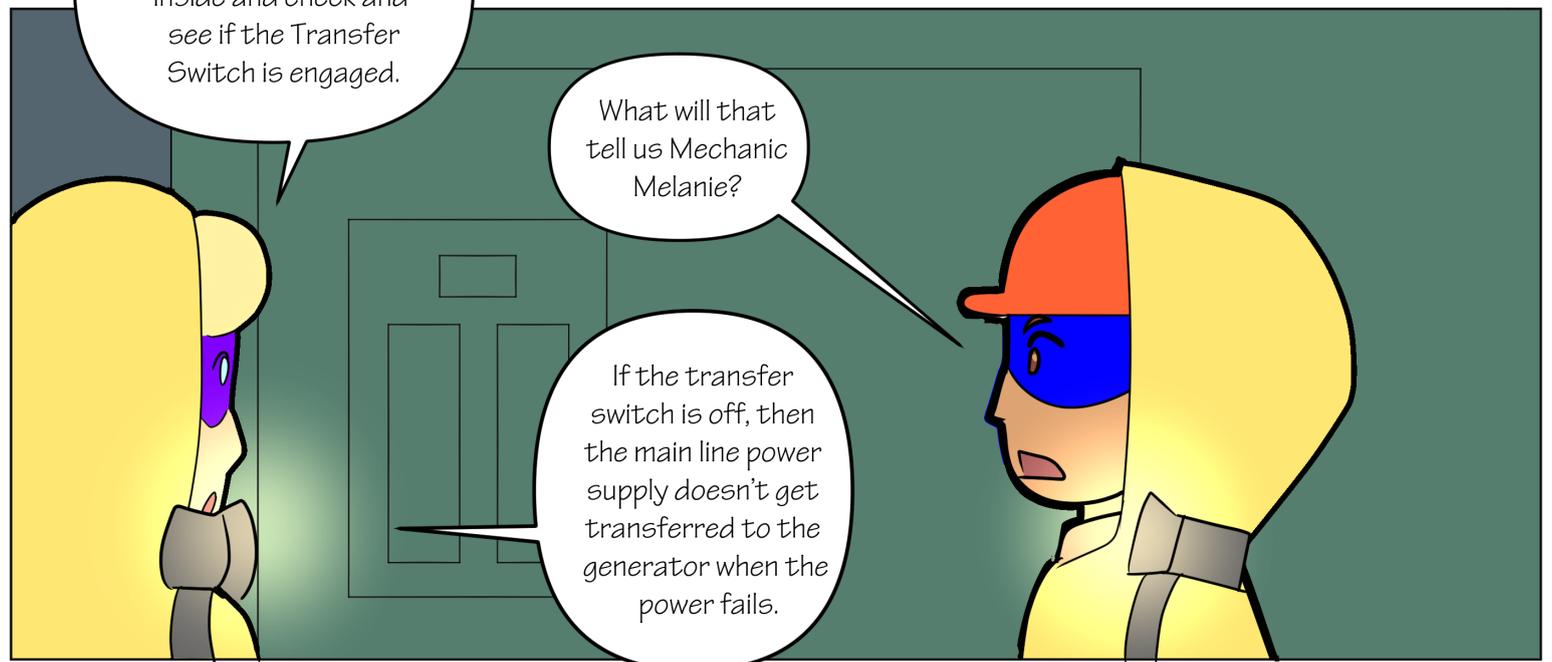
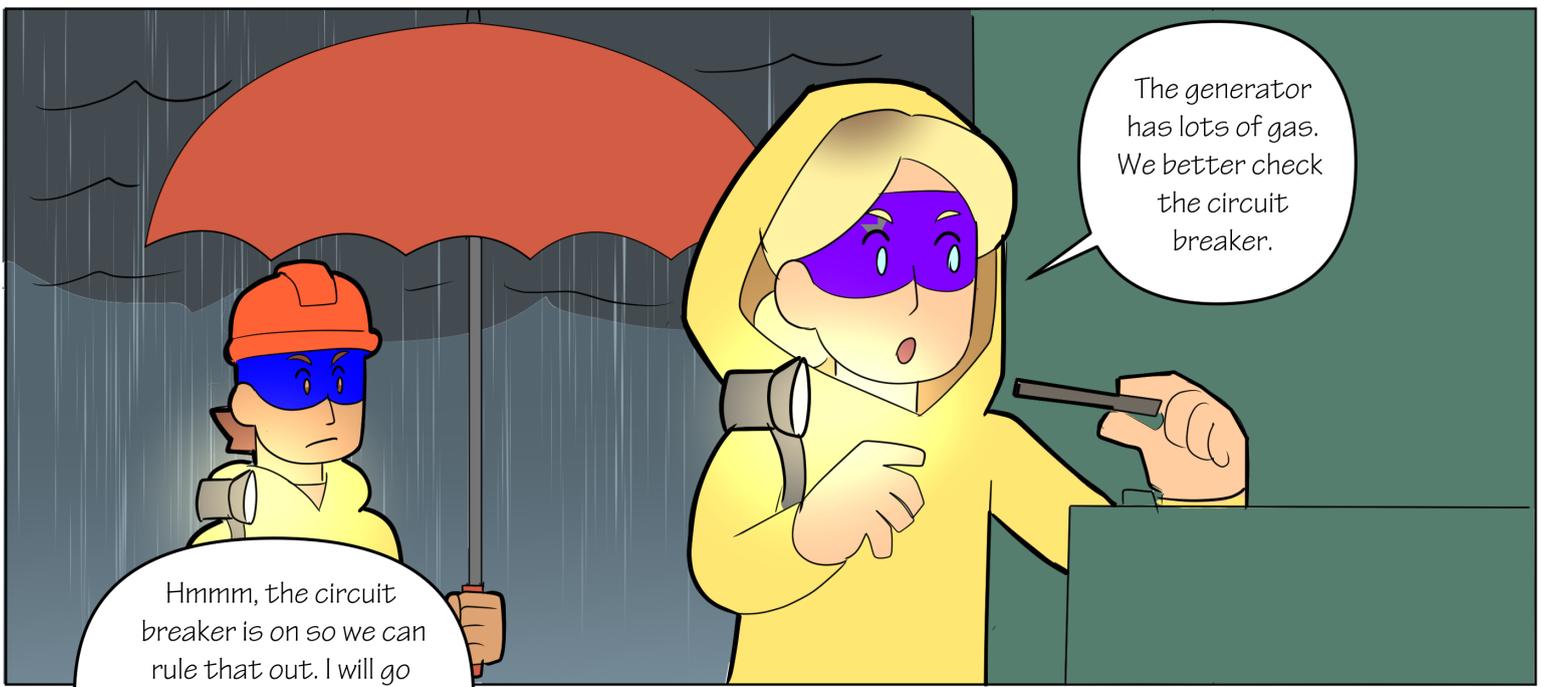


I was just leaving. Our power keeps going on and off. I need to get home to my dogs- they don't like the thunder.

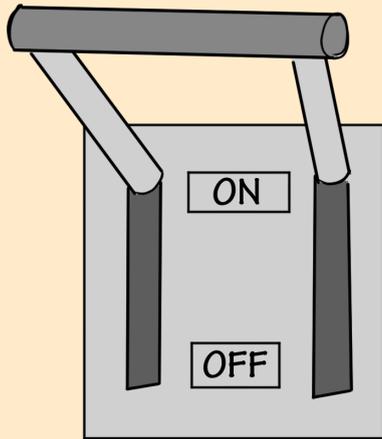
We have a problem. Our power went out here, so I started the diesel-powered emergency generator, but something happened, and it stopped working. Without power we can't get water to the community members.

I'll be right over.



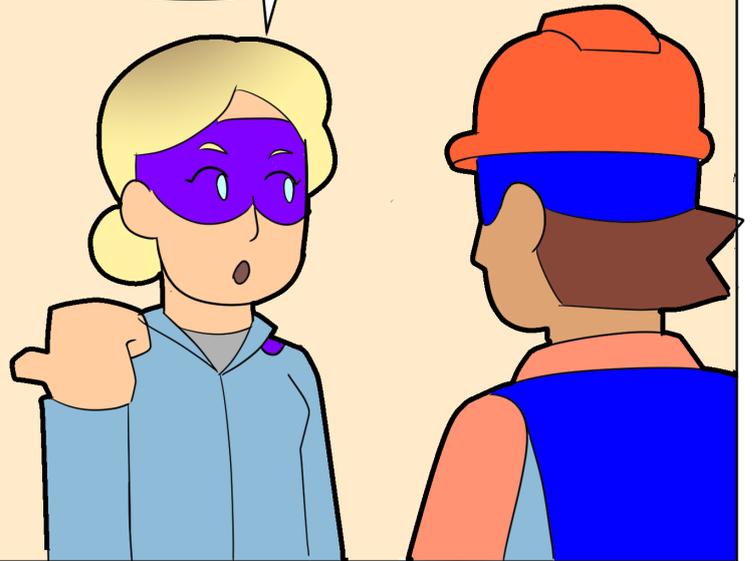


Back inside the treatment plant...

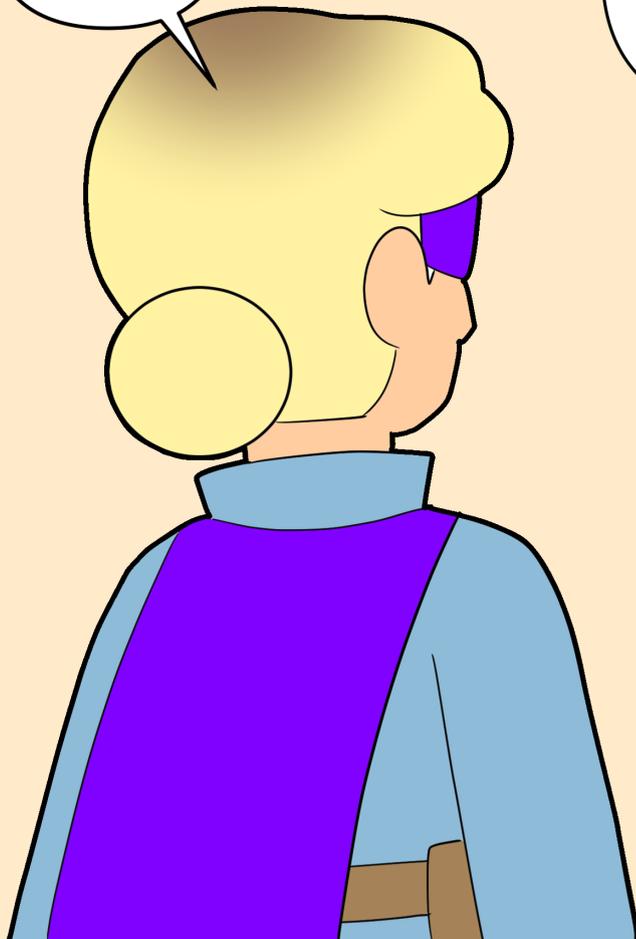


Transfer Switch

The transfer switch is engaged.

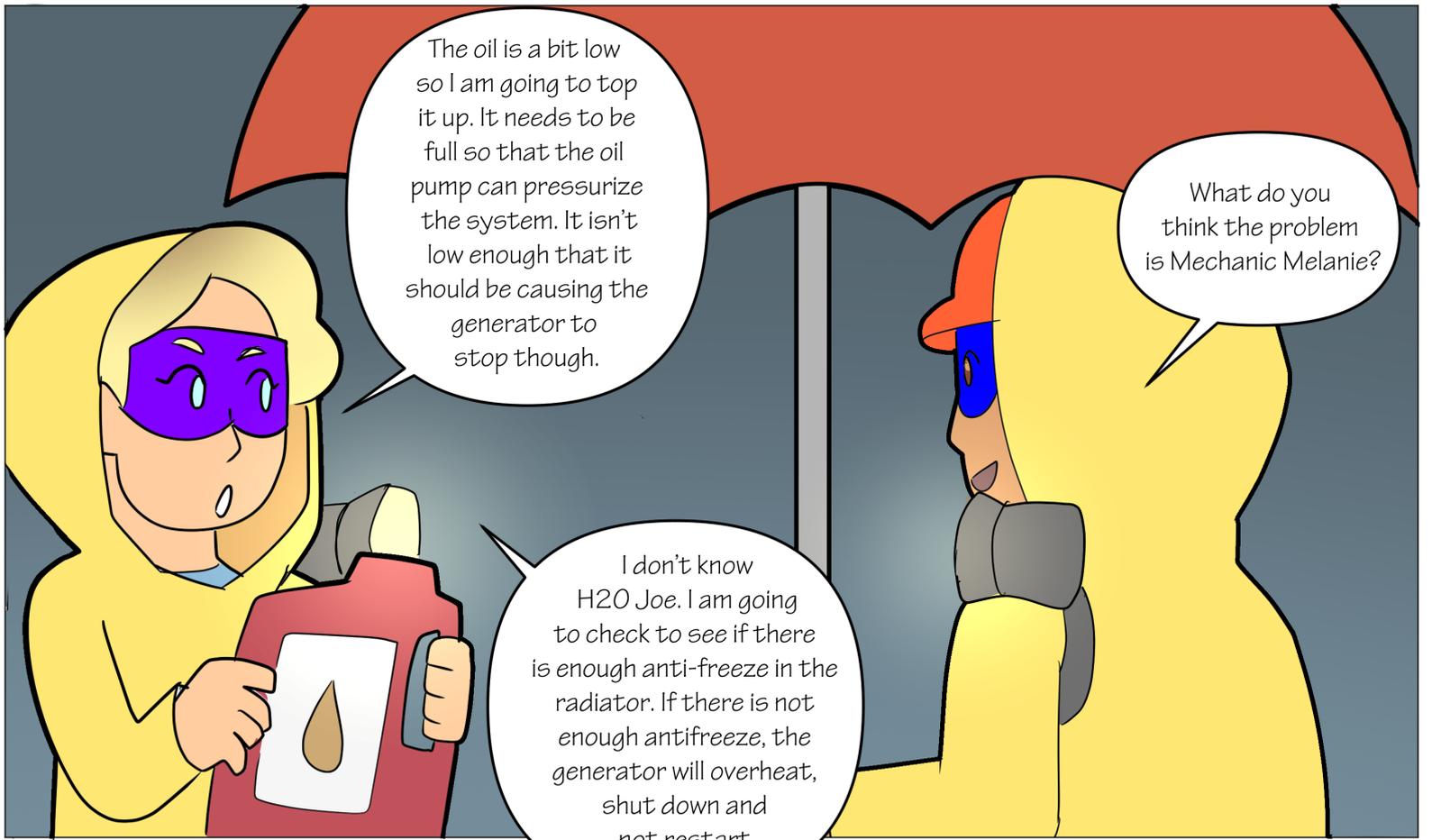


Let's head back out to the generator and check the oil level.



Every minute that goes by means no water is being cleaned and we are running out of water for our community.

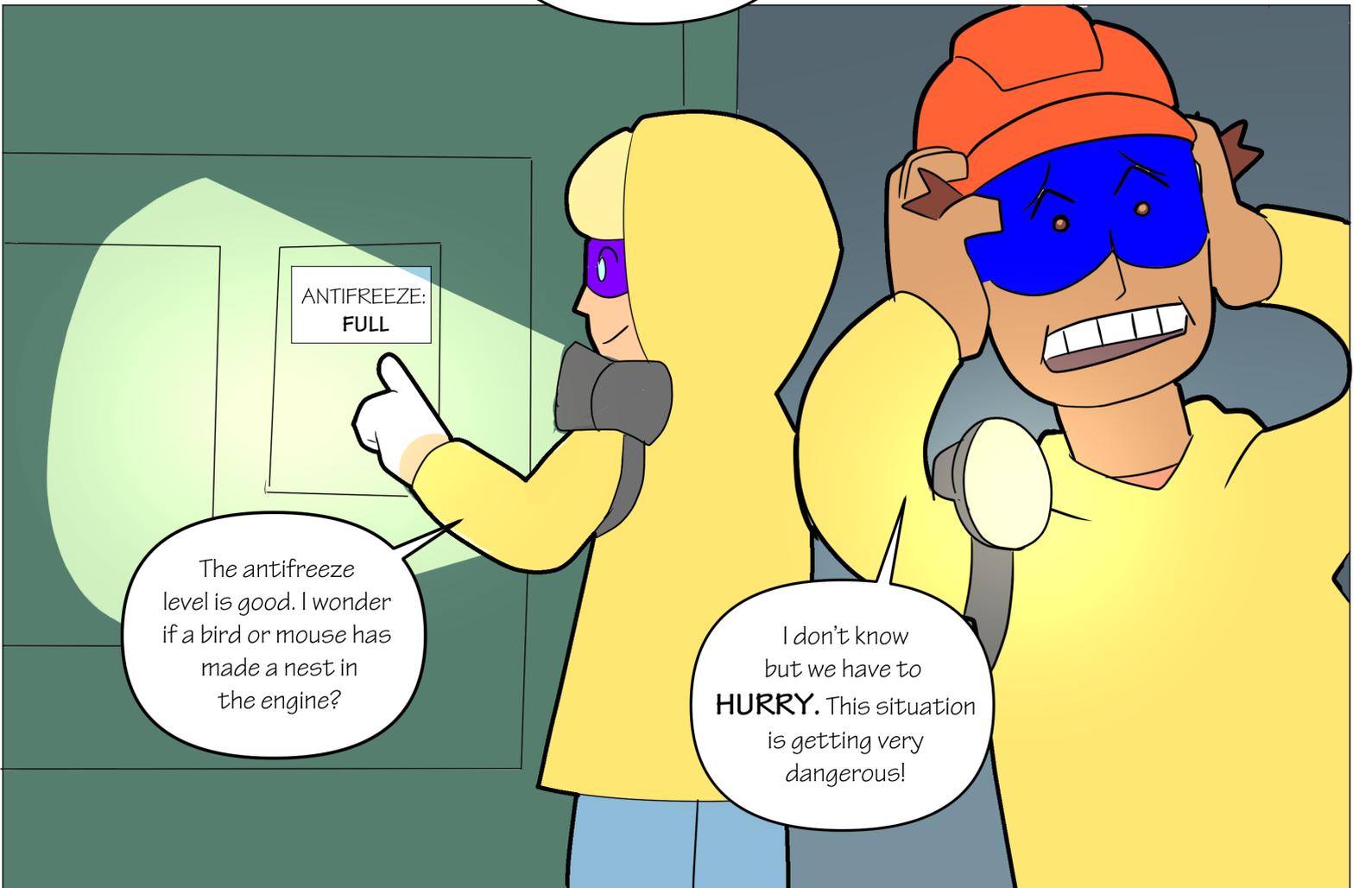




The oil is a bit low so I am going to top it up. It needs to be full so that the oil pump can pressurize the system. It isn't low enough that it should be causing the generator to stop though.

What do you think the problem is Mechanic Melanie?

I don't know H2O Joe. I am going to check to see if there is enough anti-freeze in the radiator. If there is not enough antifreeze, the generator will overheat, shut down and not restart.

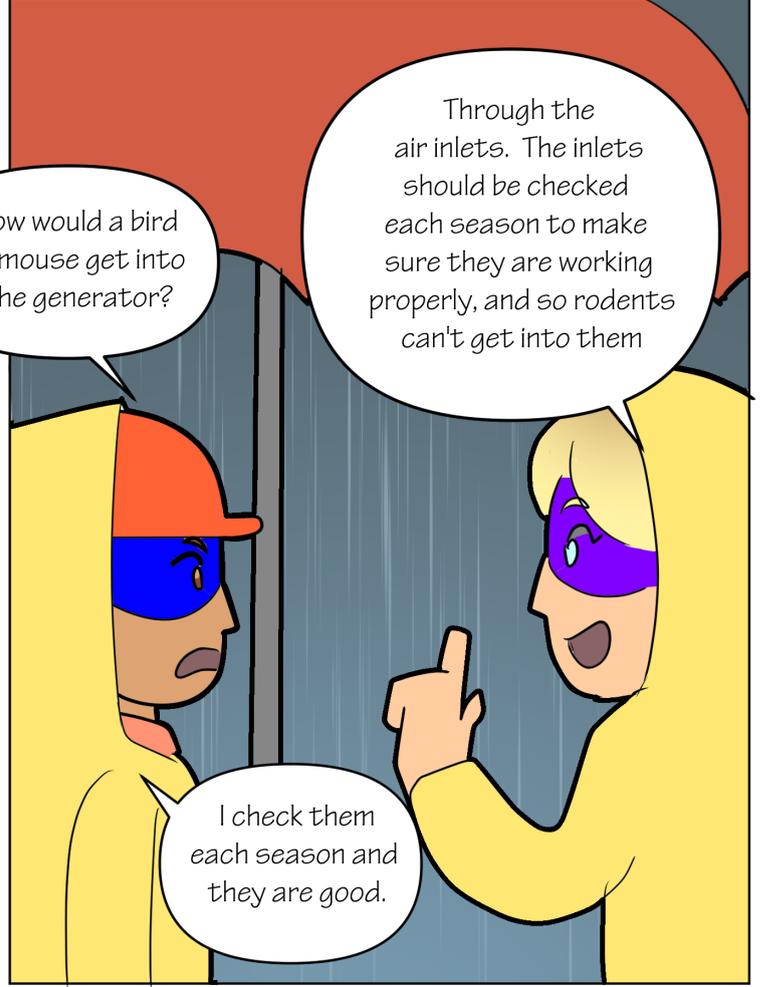


The antifreeze level is good. I wonder if a bird or mouse has made a nest in the engine?

I don't know but we have to **HURRY**. This situation is getting very dangerous!



If a bird or a mouse has built a nest in the air chamber the engine can't get air and won't run.



How would a bird or mouse get into the generator?

Through the air inlets. The inlets should be checked each season to make sure they are working properly, and so rodents can't get into them

I check them each season and they are good.



I wonder if the fan belt is broken?



Inside the storage room...

I'm checking the inventory list to see if we have a spare fan belt.

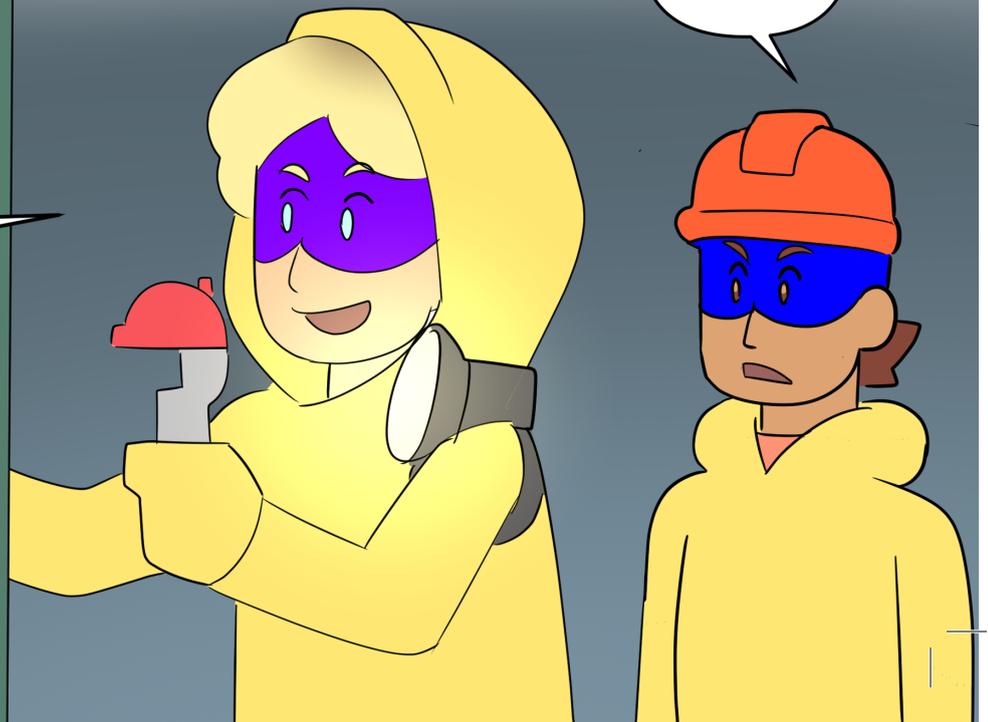
Inventory List

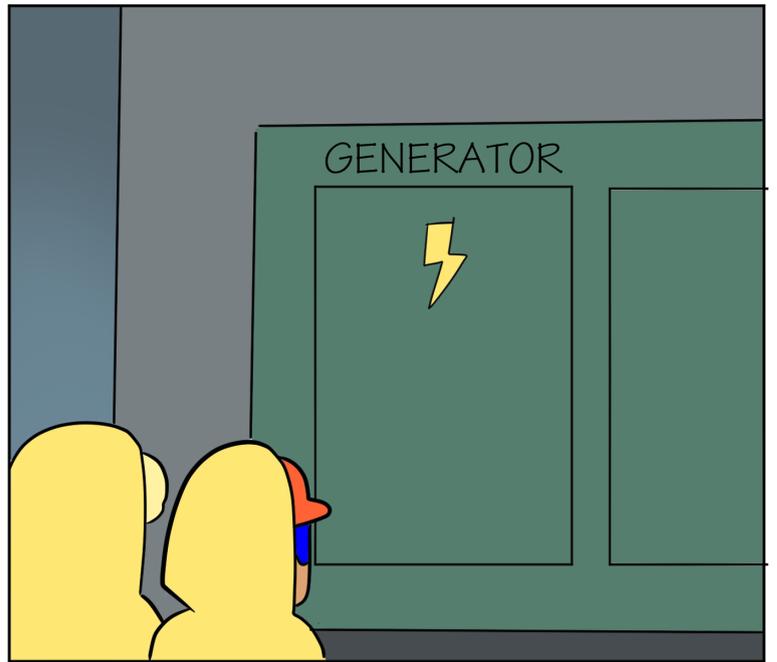
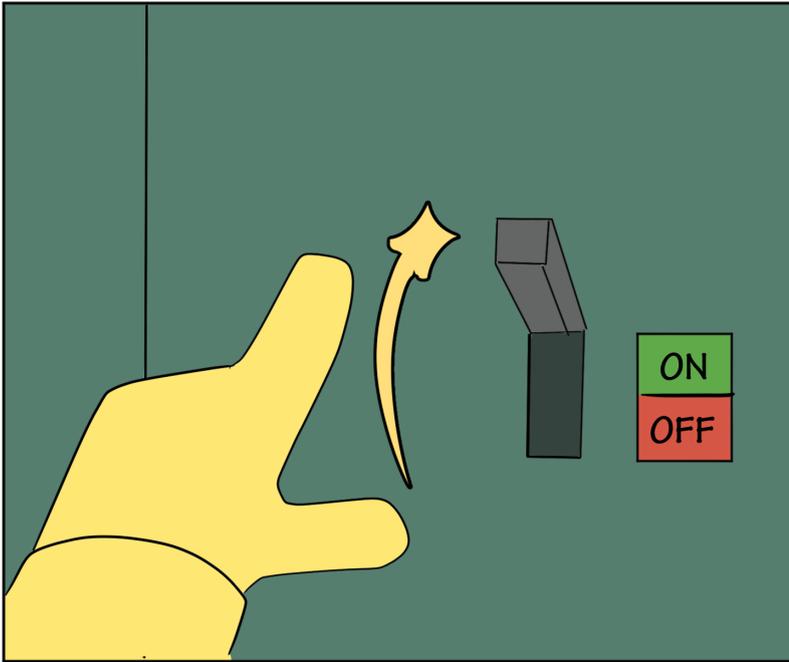
Valves: 3
Water Pumps: 2
Filter components: 4
Oil: 2L
PPE: 6 sets
Fan Belts: 3



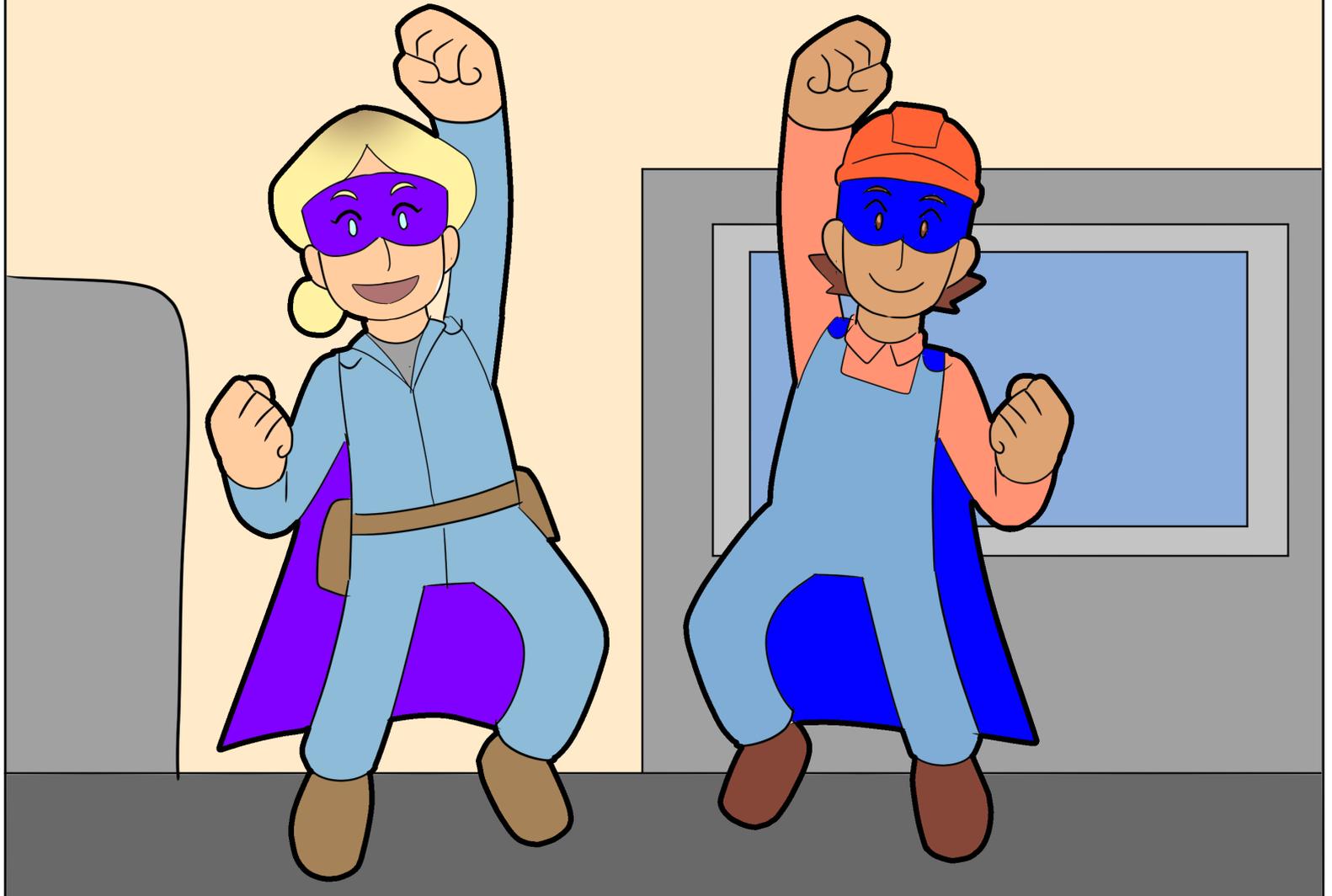
GENERATOR

All I have to do is slacken off the idler, install the new fan belt and retighten the idler. Then I press the reset and start buttons, and we are good to go!





The day is once again saved by the heroes that keep the community's water clean and running!



Word Search

J Z J M U L T I M E T E R S D
F P W M Z Y M V P L I E R S X
U U Z M M U L J B A T U Q X H
Q X N T U A X A R C O M T O A
L J O N H E B I K U G C A B M
F A P V E G W R E N C H D O M
L C J P D L W R S O C K E T E
A K B V I E S U T F Y I C V R
S W A F S S N O V P K I R E O
H R T S C R E W D R I V E R S
L E T O W X E Q D Y K I E N R
I N E O U U W W U B G O P D O
G C R H F X H L U A N X E L R
H H Y Q C C M M T R Y V R K O
T W P E C Q Y J E Y E T R I K

Screwdrivers

Flashlight

Pliers

Creepers

Multimeters

Socket

Wrench

Hammer

Funnels

Battery

Wrench

Pry bar

Tear-Out Page:
Mechanic Melanie



Home Storm Safety Tips

If you are indoors:

- Avoid using electrical devices.
- Avoid running water.
- Have an emergency kit on hand.
- Close all windows and doors.
- Put away loose objects from the yard.
- Keep candles close by.
- Bring pets indoors.
- Stay indoors if you hear thunder.
- Stay away from windows.
- Listen to the local news and weather reports

If you are outdoors:

- Stay away from open fields.
- Stay away from water.
- Avoid sheltering under trees, posts, and equipment.

If you are in your car:

- Find a safe place to pull over and park and stay in the car. Put your 4-way flashers on.
- Avoid driving through flooded areas.
- Avoid touching metal in the vehicle.
- Stay away from power lines that are down.





See you again for the next H2O Hero adventure!