Emergency Power Planning for People Who Use Electricity and Battery Dependent Assistive Technology and Medical Devices

Edition 3.0, March 2019

By

June Isaacson Kailes Disability Policy Consultant



This document is frequently updated. Please check for the current version at: http://www.jik.com/mrp.html

Emergency Power Planning for People Who Use Electricity and Battery Dependent Assistive Technology and Medical Devices Edition 3.0 2019

By June Isaacson Kailes, Disability Policy Consultant

Distribution of this document is encouraged provided you follow the instructions at the end of the article. Suggestions for improving this article are welcome. Please send comments to the author jik@pacbell.net

This emergency power planning checklist is for people who use electricity and battery dependent assistive technology and medical devices. Electricity and battery-dependent devices include:

- breathing machines (respirators, ventilators),
- power wheelchairs and scooters,
- electronic and communication devices, and
- oxygen, suction or home dialysis equipment.

Some of this equipment is essential to your independence while other equipment is vital to keeping you alive! The 911, 311, 211 assistance and emergency numbers you usually call may be overwhelmed or even unavailable in large emergencies, so having a plan is a critical step to ensure your health and safety. Your power could be out for many days following a disaster. It is vital that you have power backup options for your equipment. Use the checklist below to make power-backup plans.

This document also contains:

how to establish a support team,

- how to practice the skill of giving quick information on how best to help you,
- advice from users, and
- where to get more information.

Emergency Power Planning for People Who Use Electricity and Battery Dependent Assistive Technology and Medical Devices*				
Date Complete	Does not Apply	ltem		
		 Planning Sign up to receive alerts in your area and if you are traveling. Create a plan for different sources of power. Read equipment instructions and talk to equipment suppliers about your realistic backup power choices. Ask about: Will you be hurt if your device stops for a short period of time? if yes what is that time period? Can a power surge cause your device to stop working? If yes, what type of surge protector do you need? Does your device have a backup system? if yes, how long will it operate? Where is it located? Can your device operate on another power source? if yes, what type? Can you use manually operate your equipment? Can your equipment be powered from a vehicle battery? If yes, what is needed to and how do you do this? Will your device still work if it does not have power for an extended time? If yes, how long can it work without power? 		
Date Complete	Does not Apply	Item		
		 What should you do if you lose power in the middle of a treatment? 		

-
 Should you restart equipment if it is stopped in the middle or resume where it stopped?
What is the working time of batteries that support your
system?
When should batteries be replaced?
Get advice from your power company regarding the type of
backup power you plan to use.
Regularly check backup or alternative power equipment to
ensure it will function during an emergency.
Teach many people to use your backup systems and operate your equipment (see below <i>Establish a Support Team</i>).
Keep a list of alternate power providers.
 Ask your nearby police and fire departments and hospital if you could use them as a backup for your equipment power if your backup systems fail.
Label all equipment with your name, address, and phone
number. Attach simple and clear instruction cards to equipment
and laminate them for added strength.
Keep copies of the instructions and serial and model numbers of
your devices in a waterproof bag in your emergency supply kits.
Maintain critical paper copies of health information because your doctors' electronic health records may not be available (see
below Resource - Emergency Health Information).
All ventilator users should keep a resuscitation bag handy. The bag delivers air through a mask when squeezed
If you receive dialysis or other medical treatments, ask your
provider what the emergency plans are and where you should
go if your treatment site is not available after an emergency.
If you rely on a communication device, software or app, be sure
you back up your vocabulary so you can easily retrieve it.
Life-Support Device Users
Contact your power and water companies about your needs for
life-support devices (home dialysis, suction, breathing,
machines, etc.) in advance of a disaster.

Date Complete	Does not Apply	Item
		 Many utility companies keep an emergency list and map of the locations of power-dependent customers. If conditions allow, some utilities use this list to make contact before an outage by live or automated calls, emails, text, a personal check on a customer. If the customer does not answer, they may leave an informational door hanger.
		 Contact your utility company(ies) customer service department to learn about their specific services.
		Don't depend on your utility company to notify you of power outages. There are times where such warning will not be possible.
		Let your local fire department know that you are dependent on life-support devices.
		If you receive dialysis or other medical treatments, ask your provider for alternatives if your treatment site is not available after an emergency.
		Oxygen Users
		Check with your provider to determine if you can use a reduced flow rate in an emergency to extend the life of the system. Write the reduced flow numbers on your equipment so you can access them easily.
		Practice oxygen safety:
		 Avoid areas where gas leaks or open flames may be present.
		Post "Oxygen in Use" signs.
		 Always use battery-powered flashlights or lanterns rather than gas lights or candles when oxygen is in use (to reduce fire risk).
		 Keep the shut-off switch for oxygen equipment close so you can get to it quickly in case of emergency.
		Generator Users
		Make sure use of a generator is appropriate, safe and realistic for where you live.
		Operate generators in open areas to ensure good airing.
		Safely store fuel.

Date Complete	Does not Apply	Item
		 If you live in an apartment, the challenge is knowing if you can safely store enough gasoline to operate a generator.
		Store a siphon kit.
		Test your generator from time to time to ensure it will work when needed.
		 Some generators can connect to the existing home wiring systems; always contact your utility company regarding restrictions and safety issues.
		A 2,000 to 2,500-watt portable gas-powered generator can power a refrigerator and several lamps. (A refrigerator needs to run only 15 minutes an hour to stay cool if you keep the door closed. So, you could unplug it to operate other devices.) (see below Resource – Food).
		Rechargeable Batteries
		Make a plan for how to recharge batteries when the electricity is out.
		Check with your vendor/supplier to find alternative ways to charge batteries. Examples include:
		 Connecting jumper cables to a vehicle battery.
		 Using a converter that plugs into a vehicle's cigarette lighter).
		 Be aware that when substituting a vehicle battery for a wheelchair battery, the charge will not last as long as a charge from a wheelchair's deep-cycle battery.
		If you use a motorized wheelchair or mobility scooter, consider storing a lightweight manual wheelchair for emergency use.
		 Stored extra batteries require periodic charging even when they are unused. If your survival depends on batteries, closely follow a recharging schedule.
		Know how long the batteries that support your systems will work. When you have a choice, choose equipment that uses batteries available in nearby stores.

Date Complete	Does not Apply	Item	
		When Power is Restored	
		Check to make sure the settings on your equipment have not changed (medical devices often reset to a default mode when power goes out).	
* Re	* Review and update this checklist every six months (one way to		

^{*} Review and update this checklist every six months (one way to remember is to do this is when you change your clocks in the spring and fall).

Establish a Support Team

Build a support team of people who will help you in an emergency if necessary. They should be people who are regularly in the same area as you. The real first responders in an emergency are often your neighbors, friends and co-workers. These people, not professional first responders, make 70% of rescues in major disasters.

When you recruit and train many people, you create a universal team. When everyone knows what to do, everyone can help!

Build support teams with many people at every place where you spend a large part of your day: at work, home, school, or volunteer site. This is especially important when it is hard to predict who will be where you are at any given time.

Practice with different people to learn who will best be able to help you. Look for people who are:

- Strong,
- Calm.
- Listen well,
- Communicate clearly,
- Can guide you safely, and
- Attend to important details.

Work with people who are dependable and have the physical and emotional ability to assist you.

Buddy Systems and Attendants: Do Not Rely on One Person

Do not depend on any one person. Buddy systems (choosing and training one person to assist you in an emergency) have weaknesses. You and your buddy may not be able to contact each other quickly in an emergency.

If you rely on personal assistance services (attendants), they may not be available when you need them. Therefore, it is important that your support team include other people.

Plan Multiple Ways to Give and Get Information

In an emergency, some communication systems may work when others fail. The more systems you have available to you, the more likely you will be able to contact other people. How many of these systems do you have and know how to use?

- E-mail
- Internet
- Pagers
- Text messaging
- A standard phone that does not need electricity (most new phones, including cordless ones, need to be plugged into an electrical outlet)
- Cell phone
- Low cost two -way radios
- Ham radio

Master the Skill of Giving Quick Information on How Best to Help You

Despite your best planning, sometimes you must build a support team on the spot. Think about what you will need, how you want it done and what kind of people you want to work with if you have a choice.

Be ready to give people who may not know you all the information needed to be able to help you without causing injury. Be clear, specific, and concise with your directions. Think about how much detail is necessary. Be ready with additional instructions if needed. Practice giving these instructions using as few words as possible. For example:

- "Connect the battery by the window to my vent by following the instructions attached to the battery."
- "Get my oxygen tank right side of green bookcase. I can breathe without it for 15 minutes."
- "Get my communication device from the table by the wall."
- "Get my manual wheelchair."
- "The traditional "fire fighter's carry" is dangerous for me because of my respiratory condition. Carry me by "
- "You have to carry me out. Get an evacuation chair hanging at the top of 'stairway two,' and I will tell you what to do next."

If communicating may be a problem, consider carrying preprinted messages with you, for example:

I cannot speak, but I do hear and understand. I use a communication device. I can point to simple pictures or key words. You will find a communication sheet in my wallet.

Advice from Users

Sandy Especially Tough on Vulnerable Populations November 1, 2012 1:00 PM ET Heard on Talk of the Nation

ALEJANDRA OSPINA: Hi, Neal. Thank you so much for having me.

CONAN: And what's your situation right now?

OSPINA: We are in a high-rise building in Tribeca on Dwayne Street. I live with my partner, Nicholas Dupree, who is ventilator dependent. He is also a disability activist. We are not in an evacuation or flood zone A or B. We were in zone C. We didn't expect to lose power, although we were prepared as we possibly could be. We have lost power and water. We lost those things on Monday night. So what we've been doing, with the help of our community, is having people go up and down 12 flights of stairs to charge two ventilator batteries at our local fire stations. They do have a functioning generator. So that is what is keeping Nick alive currently, literally.

We have a battery swap coming up in about 15 minutes. And we have other members of the community bringing us car batteries and marine batteries, which can also power a ventilator and all the other medical equipment that we have. But we're low on those two. We're - we've got a couple of dead car batteries sitting around, so we're waiting for some folks to contribute more to that.

We had some issues with people around us, trying to, sort of, force evacuation, which in a lot of situations would be a good idea. But with someone - like Nick who's medically fragile. There are a lot of complications to an evacuation to a hospital. And as you probably know, several local hospitals were evacuated themselves because they lost their generator power so - and it became really important for us to keep Nick safe here and in place. He has nursing care 24 hours a day. The transit

shutdown on Sunday night has made that difficult, however, because his nurses come from as far away as New Jersey and Long Island to Downtown Manhattan.

CONAN: . So as you look ahead, it could be days, even longer, before power is restored.

OSPINA: I'm really hoping that we don't go further than Saturday. But if we do, we still have our collective of folks willing to go up and down for us. We have - we're doing pretty well on supplies of fresh water and food. As long as we have batteries that can power feeding pumps and humidifiers and the like, we can keep chugging, which is why we know that we can take care - better care of Nick at home than if he were evacuated, which would be dangerous. I'm also someone who uses a wheelchair, and that would also complicate things a lot.

So we're doing the best that we can. We just had a new friend come deliver us stuff that will help us hopefully get back online. Self-service has also been spotty because towers have also been down, so it's actually really fortunate that you got me on the phone in the first place.

(LAUGHTER)

OSPINA: We were also convinced that we'd be good to go because we have a landline, but there's not a single functioning landline in our building, so that was a bit of a surprise.

Excepted from: https://www.npr.org/2012/11/01/164113455/sandy-especially-tough-on-vulnerable-populations

Bob Mauro, WEBSITE: Author of SUCKING AIR, DOING WHEELIES available on amazon.com

I have my resuscitator bag with me at ALL TIMES, in case my vent fails. I have drills to see how long it takes to deploy it and use it. I can pump it myself for at least 15 minutes with my foot. I have a long hose on it that gives me time to call 911 if I am out. I do drive and use paratransit. I also save my old wheelchair batteries because even though they no longer work for my wheelchair. They will run my plv-100 vent for about ten hours each. I have 4 batteries I keep on trickle charge (trickle charger is a small charger you can get from the vent company or most electronic stores, like

radio shack. It charges the battery at a slow rate so you can leave it connected to the battery for long periods, unlike a normal car battery charger). I also have one on my wheelchair and one on my bed vent. All 6 batteries are on charge at least daily. During the big northeast blackout, I was without power for 22 hours. I went thru one battery and was on the second battery when power came back on. I have the batteries on a cart I can easily drag anywhere in the house.





On Support Teams:

My mom and dad used to help me, but now they have mild Alzheimer's and I help them. I do have a personal assistant /attendant 5 days a week 4 hours a day. I depend on 911 in big emergencies, but in 33 years living here, I have not had to use them more than once.

I joined the Automobile Association of America so I can get help in my van if I get a flat tire, etc. They helped me get going again several times. They are great.

Here's the story on using 911. The day after this Christmas, I had a bad cough from bronchitis. It scared me. Mom and dad can't drive and my brother was nowhere to be found when I called his home. So I called 911.

They were here in 4 minutes, 2 cars and an ambulance. I did not want to leave without my wheelchair. They could not, and would not get it in the ambulance. Those ambulances should be wheelchair accessible! The paramedics offered to put me on a stretcher and use a resuscitation bag to breathe for me. I said no. Then they offered to drive my van with me in it to hospital. Their bosses said no.

So I drove to ER with a police escort and the paramedics following in the parade. We drove with sirens and lights flashing. We drove thru red lights. It was fun and funny! When I got to the hospital, the cops said I drive great. I asked if they were going to give me a ticket for going thru all the red lights. They laughed.

It turned out I was fine. No pneumonia or temperature. But I did spend 6 hours in ER and then drove home. It was an experience. The next day, I timed how long the internal battery in my vent would last disconnected from my big vent battery on my wheelchair. The vent's internal battery lasted 90 minutes before the vent died. So if I need to go to ER in ambulance, they can just take my vent and leave my wheelchair home, since the vent's internal battery will run my vent for 90 minutes.

Riding Out Ike on a Vent by Margaret A. Nosek, Ph.D.

Margaret A. Nosek, PhD, is Executive Director of the Center for Research on Women with Disabilities and Professor in the Department of Physical Medicine and Rehabilitation at Baylor College of Medicine. She can be reached at mnosek@bcm.edu or www.bcm.edu/crowd

What on earth was I thinking?! Throwing caution to the wind (sorry), I made the decision that my family, my helpers, and I, my power wheelchair, and my ventilator could withstand a direct hit by a category two hurricane with a gasoline powered generator, plenty of canned food, water, and batteries, and a good supply of chocolate. We rode out the storm here, completely prepared and dutifully following instructions to shelter in place. It was mighty terrifying but luckily we had no damage to the house, only lots of fallen limbs. Here are some of the lessons I learned:

1. The decision about whether or not to evacuate should be made out of consideration for those people who are my life support, not just me. I was completely confident we would be all right and my house would hold up. My attendants, Perla and Amalia, however, were terrified. The wind started getting very bad at around seven o'clock in the evening and the electricity went out around 10:30. I finally went to bed at two o'clock in the morning; I was tired but not afraid. My two friends didn't sleep the whole night; they just huddled in the next bedroom with Perla's three kids. They even came to my bedroom around four o'clock to move my bed away from the window. The wind was howling and there was a constant rumble like a freight train, with trees swirling as if they were lassos and limbs snapping all over. By the morning we all agreed -- never again!

- 2. **Generators smell really bad!** And may affect your breathing, especially if you have a breathing problems. Fumes may surround the house depending on weather conditions. As soon as we got up, four of our neighbors came over to check on me and help set up the generator. Everything worked okay and we plugged in the refrigerator and battery chargers for my ventilator and wheelchair. It was still raining and the wind was still blowing pretty hard, making all the fumes from the generator surround the whole house. The combination of fumes, heat, and humidity really started getting to me by the afternoon and I was having a lot of trouble breathing. This was the main reason, that I made the quick decision that we had to leave.
- 3. **Sprint cell phones don't work in a crisis.** Apparently they don't build their towers as robust as Verizon. Thanks to Amalia's Verizon cell phone I was able to connect with my nephew in Atlanta. He searched the net and found me what was probably the last available hotel room in Austin.
- 4. When electricity goes out you don't just lose your lights. In my naïveté about how the world works, I never realized that without electricity gasoline pumps won't work, air pumps won't work, and water purification plants shut down. Generators only run about 10 hours before you have to put in more gas. No gasoline stations were open or functioning. The fact that our water was contaminated was the final straw, propelling us down the road to Austin. After visiting two abandoned gasoline stations we finally figured out why the air pumps weren't working so we fill up our tires using an old-fashioned hand pump my neighbor had in her garage. We finally got to the hotel in Austin by midnight. It was really eerie driving the first hour through a totally dark city. Only the car dealerships were lit up.
- 5. **Neighbors and family really are lifelines.** Once I was able to get a cell phone signal I kept in constant touch with my nephew and my neighbors. We had a sinfully wonderful time in Austin. We took in some sights and caught up with lots of old friends. I even got to teach two classes at the University of Texas, one in rehabilitation counseling and one in nursing, when some faculty friends found out I was available and not particularly busy. It was glorious fun! Man, I love that city. My neighbors called me late Wednesday evening to say that electricity was back on my side of the street. Thus ended our unexpected adventure. After lunch at Threadgill's and a little more playing around, we came home Thursday evening.
- 6. The aftermath is so much worse for low income areas. Driving around town over the past week has deeply saddened me, not just for all the lost trees and damaged houses or the utter devastation in Galveston and Bolívar Peninsula. It's the disproportionate effect of the event on people who lack the resources to bounce back. FEMA, some churches, and others are helping get some folks through the crisis, but I'm really concerned about those who won't

have the resources to repair or rebuild. The effect on them is so much worse than for those of us who could escape and regroup.

7. **Regulations are good.** Whatever happened to the rule that says utility companies have to trim trees around power lines? I think deregulated public service industries have failed us miserably. Maybe enough middle- and upperclass people have been severely inconvenienced by this event that they will vote Democrat in November and get us back to a society that protects its people.

Now that I have survived, it's time to rekindle the fire in my belly and get back to work!

International Ventilator Users Network - Ventilator Backup: Are Your Prepared? Advice From Users: http://www.post-polio.org/whatwks b.html#vent

PAUL KAHN (<u>cairokahn@aol.com</u>) is editor of *Disability Issues*, a
quarterly publication of the Community Information Network for Individuals
with Disabilities, Boston, Massachusetts. Paul is a ventilator user due to
centronuclear myopathy.

"I have two PLV-100 ventilators that my home care company provides. I keep one by my bed. It is plugged into the house current. The other sits on a tray on the back of my wheelchair. It is powered by an external battery underneath the chair. My apartment building has an emergency generator that kicks in when the electricity goes out. It supplies current to certain public areas of the building. There is an outlet for the generator down the hall from my apartment. When the electricity goes out, I plug a long extension cord into that outlet and connect it to a power strip. Then I plug my bedside ventilator into the power strip.

"For my wheelchair ventilator, I rely on its internal battery to take over if the external battery fails. The internal battery will power the ventilator for close to two hours. I also have an Ambu® bag that I take with me whenever I'm away from home. I also have two suction machines. One is stationary and like my bedside ventilator, can be connected to the house current or the emergency generator. The other is portable and has a battery that I recharge regularly."

 MARGARET E. DAVIS (<u>med43@earthlink.net</u>) is a respiratory polio survivor who uses noninvasive nasal ventilation at night and mouth intermittent positive pressure ventilation during the day. "We live in central Arkansas where tornadoes are common; being without power is a given. We have a large gasoline generator at home. It will power my ventilator and my husband's bilevel unit and a few other appliances for eight hours before we need to refill it. I can easily start it myself by turning a key. Our van has an inverter hardwired to an auxiliary battery with two outlets. I can charge my wheelchair battery and my HT50[®] (Newport Medical Instruments, www.newportnmi.com) at the same time without any problems.

BILL MILLER, (<u>MaxNWM@aol.com</u>
 C1/C2 quad, uses tracheostomy positive pressure ventilation and lives in Florida.

The emergency management services (911 people) know I'm a priority for power. If the power goes out for an extended period, I'm among the first to have it restored. My primary backup is my van which has a converter that runs off the van's battery to produce AC. If the van is running, the alternator keeps the battery strong (just like in



regular vehicles) and I can have electricity as long as I have gasoline in the tank. I try to always leave it full or at least above half of a tank. My van would also allow me to drive to another location that had electricity, if there was no power for several days.

I also keep a very long, heavy-duty extension cord with a 3-outlet expander in the back of my van. If I'm out in the van and need electricity, I can use an outlet at a store or restaurant. If I'm at home, I can run the extension cord all the way from the van to my bedroom.

For the van, I purchased a generator that can do two crucial things: it can start a dead vehicle battery with a jumper cable attachment, and it provides plugs for electricity. But it is gas-powered (loud, gives off fumes and needs to be used about once a month to keep it running well) and small, so it's only good in short-term scenarios but ideal for a dead van battery. These generators can be purchased at Home Depot, Lowe's, Sears, etc. for about \$300-500.

For ventilator backup, I have two LP10s (<u>Puritan Bennett</u> - http://www.puritanbennett.com/) and each has its own internal and external battery. The internal battery lasts about 45 minutes. The external battery lasts 8-10 hours (manufacturer's claim) but on a full charge, I can get about 15 hours. To recharge it, I simply plug it in. For an emergency,

it's wise to be plugged in to keep that external battery as full as possible. You never know when you'll need it.

I keep an Ambu[®] bag on my chair at all times, just in case. These resuscitators can be found online at less cost, about \$20, no prescription required (www.buyeremp.com/dept.asp?dept%5Fid=10213). Technically they are disposable, but mine have lasted years by adding a bacteria filter and changing it periodically.

Reprinted with permission from: Ventilator-Assisted Living[©]
Spring 2004, Vol. 18, No. 1, http://www.post-polio.org/ivun/val_18-1
1.html#con Accessed 10.24.09

Resources:

Generators

How to Safely Get a Generator Up and Running in a Hurry

5 ways to restore power when you need it most By Paul Hope
Last updated: January 17, 2019
includes 4 videos:

- Lost Power? What You Should Do 1.30 minutes
- How to Prepare Your Home for a Storm 1.18 minutes
- Generator Buying Guide 3.5 minutes
- 5 Tips to Keep Your Generator Ready 3.5 minutes

Generator Buying Guide, Consumer Reports, last update 12/2017

Individual Preparedness Tips

Be Ready to Go: Evacuation Transportation Planning Tips for People with Access and Functional Needs (2010)

Be Ready To Go: Disability-Specific Supplies For Emergency Kits (2010)

Emergency Evacuation Preparedness: Taking Responsibility For Your Safety, A Guide For People with Disabilities and Other Activity Limitation (2002)

Emergency Health Information: Savvy Health Care Consumer Series (2011)

Emergency power planning for people who use electricity and battery dependent assistive technology and medical devices Podcast (2013)

Emergency Preparedness for Personal Assistant Services (PAS)
Users, Edition 2.0, (2016) contains tips specific to individuals who use personal assistants, attendants or caregivers. Planning elements include a checklist, support teams, communication, evacuating and sheltering, supplies and resources that provide more 'how to' details. WORD

Emergency Preparedness: Taking Responsibility For Your Safety - Tips for People with Activity Limitations and Disabilities (2006)

Emergency Supplies Kits for People with Disabilities and Activity Limitations, 2010, Edition 2.0, (2016) Checklist suggests emergency kit contents including no-cost supplies that you can tailor to your needs and abilities. Kits to consider for different places and situations: keep it with you, grab and go, home, bedside, and car. Specific suggestions are made for hearing, speech and communication, and vision issues as well as for wheelchair and scooter users, service animal owners and people with allergies, chemical sensitivities and breathing conditions. WORD

Emergency Travel Safety Tips for Overnight Stays, Edition 1 – October 2017 - Tips for everyone. [*] Items are specifically for people with disabilities who because of a variety of disabilities (mobility, breathing, allergies, hearing, seeing, walking, understanding or chronic conditions) may have difficulty or be unable to: use stairwells, hear alarms, see or read exit signs and understand instructions. Safety tips include check-in, personal support, in your guest room, other safety tips, and more resources.

FDA Offers Tips about Medical Devices and Hurricane Disasters,

Last Updated: 09/20/2018

Includes:

- General Safety
- Power Outage
- Warning about Potential Carbon Monoxide Problems when Using Generators
- Water Contamination
- Sterility
- Re-Use of Medical Devices
- Dealing with Heat and Humidity
- Using Blood Glucose Meters

Food

Food and Water in an Emergency (2004) - from FEMA and American Red Cross, last accessed 02.10.19

Consumer's Guide to Food Safety: Severe Storms and Hurricanes (2015) - recommendations about keeping food safe during times of power outages and flooding, last accessed 02.10.19

Keeping Food Safe During an Emergency (2019) - how to determine if food is safe and how to keep food safe will help minimize the potential loss of food and reduce the risk of food related illness, last accessed 02.10.19

<u>Food labeling</u> - "Sell by Feb 14" is a type of information you might find on a meat or poultry product. Are dates required on food products? Does it matter? last accessed 02.10.19

Out-of-town emergency contacts listed in priority order (first person reached calls others on this list) (2015)

<u>Power Outage Safety</u>, 2019 American Red Cross Steps to minimize loss and keep members of your household as comfortable as possible, before, and during and after power loss. Tips for Emergency Use of Mobile Devices Edition 2, (2015) - Cell phones, smart phones and other mobile wireless devices like tablets are a big part of our lives. We rarely leave home without them, and we often store important information on them. In a small or large emergency, they can be a communication life line. Provides details regarding preparing your device to quickly get and give emergency information which includes a checklist, emergency contacts and documents, alerts, texting, apps, bookmarks of important mobile sites, "no service" backup plans, skill drills and other resources, also in December 2015 Use of Mobile Devices "e-ACCESS" newsletter at www.nfpa.org/eaccess pp. 10-24.



Required Citation

© Kailes, J.I., Emergency Safety Tips for People Who Use Electricity and Battery-Dependent Devices, 2009. Edition 3.0, 2019, jik@pacbell.net, http://www.jik.com, jik@pacbell.net

Permission is granted to share and distribute this publication provided you:

- 1. Make no changes to the original document
- 2. Include proper copyright citation (see above)
- 3. Do not sell the contents for profit
- 4. Notify June Kailes of use: jik@pacbell.net

This document is frequently updated. Please check for the current version at: http://www.jik.com/mrp.html