

Backup power for voice service during power outages

Over a fiber-optic connection, battery backup is needed to power your phone service in the event of a power outage. South Slope provides and installs a Cybershield UPS/battery backup to all fiber-optic customers. During install, South Slope connects the Cybershield UPS/battery backup to a 120V wall outlet which may be located inside or outside of the home/building.

Battery backup will maintain your voice service and allow you to make emergency calls from a single phone for a minimum of eight hours during a power outage. Without a backup battery or alternate backup source, such as a generator, fiber-optic customers would not be able to place any calls, including emergency calls to 911.

Please note: a South Slope backup battery will only provide power to voice service during a power outage. The backup battery will not provide power to any other services (internet and television service will be suspended in order to conserve the battery for phone service). The backup battery will not provide power to a cordless phone.

Proper care instructions for Cybershield

Environmental factors (such as temperature) and battery age can shorten the Cybershield's life. The battery is rechargeable however, it should be replaced every two to four years or when the device beeps. The beep indicates that the battery may be depleted and should be replaced. Please periodically check the warning indicator lights to verify the operation of the backup battery and its condition (instructions are included with the Cybershield at the time of installation).

South Slope owns and maintains the Cybershield UPS/battery backup unit. South Slope will replace the battery when necessary at no charge. Visit www.southslope.com for more information. Contact our office at 319-626-2211 if you have any questions or need assistance.

Tech Transitions: Network Upgrades That May Affect Your Service

America's communications networks have been rapidly changing from copper-based networks originally built for voice services to alternative platforms built for a variety of purposes, including broadband, video and data as well as voice. These "tech transitions" involve switching the network infrastructure from copper wire to optical fiber and coaxial cable, combinations of all three, or even wireless technology. They also often involve changing to network equipment that uses Internet Protocol, or "IP," to communicate.

Telephone service providers replacing their copper networks with fiber must comply with FCC rules designed to protect customers. The rules focus on:

- Ensuring reliable backup power
- Protecting consumers who must be informed about their choices
- Providing consumers options in preserving competition where it exists today

You should know that your home telephone service may not work during power outages. If your phone company is replacing some or all of the copper wires that bring service to your home, you must be given the option to buy a battery for backup power. You must also be told what would happen if you don't buy a backup battery. If you are receiving voice service through the internet, the company providing it must give you the same information.

Here are some frequently asked questions about backup power and notification for tech transitions:

Why might I need backup power?

Traditional landline telephone service through copper wires typically continues to work during power outages, allowing you to call 911 in an emergency. However, newer alternatives – including fiber, coaxial cable and wireless – usually need backup power, such as a battery, to keep operating.

What does a backup battery do?

A backup battery will keep your phone service working for at least eight hours during a power outage.

Where can I get a backup battery?

You could buy a battery from your phone company or another vendor, or purchase another source of backup power – such as an uninterruptible power supply or generator – to support your home voice service.

Do I have to get a backup battery?

No, but you should consider how you would call 911 and other emergency services during a power outage. One option is your mobile phone, which also requires a charged battery to function.

If I buy a backup battery, what am I responsible for?

You should test, monitor and maintain it as instructed by your service provider or the manufacturer.

What are my home voice service provider's obligations for backup power notification?

When you first agree to buy voice service that uses a technology that does not have its own power, or before your phone company discontinues voice service that came with its own electricity, your provider must:

- Inform you that phone service will not be available when the electricity goes out, unless you have backup power.
- Offer you the option to buy a backup battery that would last for at least eight hours when the power is out.
- Provide information to help you make an informed choice about whether to purchase backup power.
- Tell you how to properly use a backup battery – as well as how to test, monitor and maintain it – and tell you what would happen to your backup power under varying conditions.

Your service provider must provide this information to you again every year.

What prior notice will I receive if my provider decides to change the network it uses to provide my service?

Service providers must directly notify residential customers of plans to retire the part of the copper networks that extend to the consumers' premises at least three months in advance. Non-residential retail customers must be notified least six months in advance.

What prior notice will I receive if my service will be affected?

Service providers must directly notify customers of plans to discontinue, reduce, or impair their service. Depending on who the service provider is, that notice may be either 30 days or 60 days prior to the planned change.

You can file comments or objections to a planned discontinuance, reduction, or impairment of service. The notice from the service provider will include the deadline for filing comments or objections, and how to file them. Depending on who the service provider is, the period for filing comments or objections may be either 15 days or 30 days from the date of the notice.

What should I ask my service provider if my network is transitioning?

In most cases, you will not need to do anything; services and rates are not supposed to change because of a network transition. But if you are concerned about the telephone



network you use, you can call your telephone company and ask about any transition plans. Some things you can ask include:

- Is my network transitioning from copper wire to fiber? If so, is just part of the network being replaced with fiber, or the entire network all the way to my house?
- Do you provide backup battery systems for your customers? If so, how much will I need to pay for these backup batteries, if anything?
- Are you switching to an all-IP network?
- If you are switching to an all-IP network, how will my service be affected?
- Will things like a fax machine or a home security system be able to operate with the new network?

Can service providers change the network they use to provide my service without my consent?

Telephone service providers can replace their copper wire networks, but such a transition should not have any significant effect on your telephone services. If a service provider wants to stop or reduce the telephone service provided to existing customers, or replace the existing service with a different type of service (like IP-based service), it must apply to the FCC for approval.

Will I be required to upgrade my service and pay for features I don't want?

If you are an existing customer who only receives traditional telephone service, you cannot be required to subscribe to additional services, such as Internet access and television programming. If you only want traditional telephone service over the telephone network, whether it is copper or fiber, the service provider must keep that option available.

What has been done to prepare for these tech transitions?

The FCC authorized various experiments and launched data collection initiatives in 2014 to evaluate how customers are affected by technology transitions. Using service-based experiments, we have begun to examine the impact on consumers and businesses of replacing existing services with IP-based alternatives.

The FCC also sponsored targeted experiments and cooperative research to learn how new technologies can more effectively reach all Americans, including individuals with disabilities, and provided funding for rural broadband experiments to help the FCC understand what kinds of next-generation networks can best serve the needs of rural America.

Additionally, everyone was given the opportunity to provide input using the FCC's public comment process.

How can I find information about tech transitions where I live?

Service providers are required to notify states when a transition is planned. If you think your network has undergone a transition and you were not notified, you may wish to contact your state public utility commission to inquire about network changes taking place in your region. They may also be able to share information about alternative providers in your area. Contact information for your state public service commission can be found at www.naruc.org or in the blue pages or government section of your local telephone directory.



What are some differences between copper wire and fiber optics networks?

	<i>Copper</i>	<i>Fiber</i>
Service	<ul style="list-style-type: none">• Limited speeds• Suseptible to signal interference/loss	<ul style="list-style-type: none">• Extremely high speeds are possible• Lower signal loss
Reliability	<ul style="list-style-type: none">• Relatively short life	<ul style="list-style-type: none">• Longer life cycle requiring less frequent maintenance• Lighter and thinner, making it easier to deploy
Power	<ul style="list-style-type: none">• Will work in the event of a power outage	<ul style="list-style-type: none">• Backup battery units required during power outages

Filing a complaint

You have multiple options for filing a complaint with the FCC:

- File a complaint online at <https://consumercomplaints.fcc.gov>
- By phone: 1-888-CALL-FCC (1-888-225-5322); TTY: 1-888-TELL-FCC (1-888-835-5322); ASL: 1-844-432-2275
- By mail:

Federal Communications Commission
Consumer and Governmental Affairs Bureau
Consumer Inquiries and Complaints Division
445 12th Street, S.W.
Washington, DC 20554

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