PART 180—LIFESAVING EQUIPMENT AND ARRANGEMENTS

26. The authority citation for part 180 continues to read as follows:


§ 180.68 [Amended]
27. Amend § 180.68 as follows:

a. In paragraph (a)(1), following the text “specified by the Commandant” add the text “, including, but not limited to, approval series 160.121”;

b. In paragraph (b)(2)(ii), after the text “specified by the Commandant”, add the text “, including, but not limited to, approval series 160.121”;

c. In paragraph (c)(2)(ii), after the text “or other standard specified by the Commandant”, add the text “”, including, but not limited to, approval series 160.122”.

PART 182—ENGINEERING EQUIPMENT

21. The authority citation for part 182 continues to read as follows:


§ 162.060–10 [Amended]
22. § 162.060–10(b)(1), after the text “practicable or applicable, a manufacturer”, add the text “or independent laboratory”.

PART 175—GENERAL PROVISIONS

24. The authority citation for part 175 continues to read as follows:


§ 175.400 [Amended]
25. In § 175.400 in the definition of “Approval series” following the text “A listing of”, remove the text “approved equipment, including all of the approval series, is published periodically by the Coast Guard in Equipment Lists (COMDTINST M16714.3 series), available from the Superintendent of Documents.” and add, in its place, the text “current and formerly approved equipment and materials may be found on the Internet at: http://cgmix.uscg.mil/equipment.”.

SUMMARY: In this document the Federal Communications Commission (FCC or Commission) adopts rules to promote continued access to 911 during commercial power outages by requiring providers of facilities-based, fixed residential voice services, which are not line powered, to offer subscribers the option to purchase a backup solution capable of 8 hours of standby power, and within three years, an additional solution capable of 24 hours of standby power. The item also promotes consumer education and choice by requiring providers of covered services to disclose to subscribers the following information: availability of backup power services; service limitations with and without backup power during a power outage; purchase and replacement options; expected backup power duration; proper usage and storage conditions for the backup power source; subscriber backup power self-testing and monitoring instructions; and backup power warranty details, if any.

DATES: Effective dates: This rule is effective October 16, 2015, except for § 12.5(b)(1), which is effective February 16, 2016; § 12.5(b)(2), which is effective February 13, 2019; and § 12.5(d), which is effective 120 days after date the Commission announces approval from the Office of Management and Budget.

The Commission will announce the effective date for § 12.5(d) with a document in the Federal Register.

Compliance dates: Section 12.5(b)(1), for providers with fewer than 100,000 domestic retail subscriber lines on August 11, 2016; and § 12.5(d), for providers with fewer than 100,000 domestic retail subscriber lines 300 days after date the Commission announces approval from the Office of Management and Budget. The Commission will announce the compliance date for § 12.5(d) with a document in the Federal Register.

FOR FURTHER INFORMATION CONTACT: Public Safety and Homeland Security Bureau, Linda M. Pintro, at (202) 418–7490 or linda.pintro@fcc.gov. For additional information concerning the Paperwork Reduction Act information collection requirements contained in this document, contact Nicole Ongale at (202) 418–2991 or send an email to PRA@fcc.gov.

SUPPLEMENTARY INFORMATION: This is a summary of the Commission’s Report and Order (R&O) in PS Docket No. 14–174, released on August 7, 2015. The full text of this document is available for public inspection during regular business hours in the FCC Reference Center, Room CY–A257, 445 12th Street SW., Washington, DC 20554, or online.

I. Introduction

1. In this Report and Order, the Federal Communications Commission (FCC or Commission) takes important steps to ensure continued public confidence in the availability of 911 service by providers of facilities-based fixed, residential voice services in the event of power outages.

2. For over one hundred years, consumers have trusted that they will hear a dial tone in an emergency even when the power is out. Now, as networks transition away from copper-based, line-powered technology, many are aware of the innovation this transition has spurred in emergency services, but many consumers, remain unaware that they must take action to ensure that dial tone’s availability in the event of a commercial power outage.

3. Accordingly, we create new section 12.5 of our rules to place limited backup power obligations on providers of facilities-based fixed, residential voice services that are not line-powered to ensure that such service providers meet their obligation to provide access to 911 service during a power outage, and to provide clarity for the role of consumers and their communities should they elect not to purchase backup power. To be sure, many providers of residential voice communications already offer some level of backup power to consumers. However, the vital importance of the continuity of 911 communications, and the Commission’s duty to promote “safety of life and property through the use of wire and radio communication,” favor action to ensure that all consumers understand the risks associated with non-line-powered 911 service, know how to protect themselves from such risks, and have a meaningful opportunity to do so. Specifically, we require all providers of facilities-based fixed, voice residential service that is not line-powered— including those fixed applications of wireless service offered as a “plain old telephone service” (POTS) replacement—to offer new subscribers the option to purchase a backup solution that provides consumers with at least 8 hours of standby power during a commercial power outage, which will enable calls to 911. In addition, we require these providers to offer, within three years of the effective date of the eight hour obligation, at least one option that provides a minimum of 24 hours of 911 service.

4. Additionally, we require all providers of facilities-based, fixed, voice residential service that is not line-powered to notify subscribers, at the point of sale and annually thereafter until September 1, 2025, of the availability of backup power purchasing options, use conditions and effect on power source effectiveness, power source duration and service limitations, testing and monitoring, and replacement details. Additionally, we direct the PSHSB to work with CGB to develop, prior to the implementation date of these rules for smaller providers, as herein defined, non-binding guidance with respect to the required notifications to subscribers. We limit these obligations to ten years as that should be enough time to ensure that overall consumer expectations regarding residential voice communications are aligned with ongoing technology transitions.

5. Finally, we encourage covered providers to conduct tailored outreach to state and local disaster preparedness entities to ensure that consumables and rechargeable elements associated with backup power technical solutions deployed in their area are well understood so that communities may prioritize restocking and/or recharging in response to extended power outages.

II. Background

6. Our Nation’s communications infrastructure and the services available to consumers are undergoing technology transitions. The Commission has recognized that these transitions will bring enormous benefits to consumers, but also that they raise important questions about how to appropriately carry out our obligations set forth in the Communications Act, including promoting public safety and national security, and protecting consumers.

7. To further these statutory objectives, in November 2014, the Commission adopted a Notice of Proposed Rulemaking (NPRM) seeking to ensure reliable backup power for consumers . . . Specifically, the Commission sought comment on the “communications services we should include within the scope of any backup power requirements we may adopt” and “propose[d] that any potential requirement that apply to facilities-based, fixed voice residential services, such as interconnected Voice over Internet Protocol (VoIP), that are not line-powered by the provider.” The Commission proposed that “providers should assume responsibility for provisioning backup power that is capable of powering network equipment at the subscriber premises during the first 8 hours of an outage” but sought comment on what should happen in the event of an extended commercial power outage. The Commission also recognized the importance of outreach to consumers on the effect of commercial power outages to their communications services and sought comment on effective consumer notification.

III. Discussion

8. Communications services play an essential role in the delivery of public safety services, particularly 911, and that role is especially prominent during emergencies that lead to power outages. In the NPRM in this proceeding, we sought comment on the means to ensure that consumers have access to minimally essential communications, including 911 calls and telephone-based alerts and warnings, during a loss of commercial power. In this Report & Order, we take steps toward that goal by establishing clear lines of responsibility for ensuring continued 911 service during such commercial power outages and by: (1) Establishing a phased-in obligation for the offering of backup power solutions to consumers; and (2) requiring covered providers to engage in disclosure of the risks associated with these outages and steps consumers may take to address those risks.

9. As discussed in greater detail below, we require that providers of non-line-powered facilities-based, fixed, voice residential service, including fixed wireless service intended as POTS replacement, offer, at the subscriber’s option and expense, a backup power solution that provides 911 access for 8 hours in the event of commercial power loss. Within three years, providers must also offer a 24-hour backup power solution. We also require covered providers to explain at point of sale how the subscriber may extend the provision of backup power during longer, multi-day outages through devices such as solar chargers, car chargers or mobile charging stations and to direct customers to sources of such equipment. No provider will be required to install backup power unless requested by, and at the expense of, the subscriber, and no subscriber will be forced to purchase unwanted equipment. Rather, our rules will ensure that subscribers can obtain backup power simply and conveniently when activating a covered
service. In addition, in order to ensure that consumers are adequately informed in determining whether to make this election, we adopt disclosure requirements designed to ensure that subscribers are aware of the backup power options available for their service, including installation and other usage instructions. We also encourage, but do not require, providers to conduct tailored outreach to state and local disaster preparedness entities to ensure that consumables associated with their backup power technical solutions are well understood so that communities may prioritize restocking and/or recharging in support of extended power outages.

A. Need for Line Powering or an Alternative Source of Power During Outages

10. In the NPRM, we noted that, in the past, consumers have relied upon service providers for backup power for their residential telephone lines. That is, equipment at the subscriber premises of those still served by copper networks continued to work during commercial power outages as long as the handset or other subscriber premises equipment did not need to be plugged into an electrical outlet to function. We proposed and sought comment on steps we could take to safeguard continuity of communications throughout a power outage across networks that provide residential fixed voice service used to dial 911, including the possible adoption of new rules. Based on the record of this proceeding, we conclude that in order to ensure the availability of 911 service in the provision of facilities-based, fixed, voice residential services during power outages, we must adopt rules to require, among other things, either line powering or (at the subscriber’s option and expense) an alternative means of maintaining 911 access during commercial power outages.

11. During a power outage, many subscribers must rely on a battery back-up, or an uninterruptible power supply (UPS), to ensure that their service will continue to operate. That is, many subscribers cannot rely on the availability of continuous power that is sufficient to provide basic telephony indefinitely in their homes. Specifically, modern fiber and cable networks do not provide power to operate necessary equipment at the subscriber location, including network devices (e.g., cable modems, optical network terminals) and telephones. The deployment of a VoIP service that allows analog voice signals to be converted to IP, using a voice codec. The most commonly deployed model for VoIP services in the United States places the Analog Telephone Adapter (ATA) in a network device that is installed inside of the living unit. This ATA function is commonly used in hybrid fiber coax cable networks that use embedded multimedia terminal adapters (eMTA), twisted pair telephone (DSL) networks and increasingly Fiber-to-the-Home (FTTH) Optical Network Units (ONUs), also called Optical Network Terminals (ONTs). Voice codecs support voice, fax, and other legacy TDM services over IP, and their function is sometimes referred to as the ATA. Network devices with the embedded ATA function are powered directly by AC power or through a UPS that converts AC to DC power.

According to the CSRIC report, in other use cases, the ATA function is being placed in consumer owned devices, creating more challenges for battery backup of VoIP services.

12. Given that consumers are increasingly relying on new types of service for residential voice communications, and that in many areas traditional line-powered 911 service is now, or is soon likely to be, no longer available, the NPRM asked whether it was reasonable for providers to continue to bear primary responsibility for backup power, and if so, to what extent. We also stated that it was our intention to: (1) Establish clear expectations for both providers and subscribers as to their responsibilities throughout the course of an outage; and (2) minimize potential for lapses in service because of subscriber confusion or undue reliance on the provider with respect to backup power for equipment at the subscriber premises. The NPRM communicted a desire to adopt baseline requirements for ensuring continuity of power for devices at the subscriber location during commercial power outages. We acknowledged that backup power is not solely a copper retirement issue. Thus, we intended to address backup power at the subscriber premises also for those who have already migrated or been transitioned to an IP-based network.

13. We adopt the rules that follow because we believe that it is essential for all consumers to be able to access 911 emergency services during commercial power outages, especially those outages caused by catastrophic storms or other unpredictable events, and to understand how to do so. Ensuring the ability to maintain such service is a vital part of our statutory mandate to preserve reliable 911 service, and more generally, our statutory goal to promote “safety of life and property through the use of wire and radio communication.” We agree with the National Association of State Utility Consumer Advocates (NASUCA) that it is unlikely that our concerns would be adequately addressed without the adoption of regulatory requirements.

We are supported in our conclusion by commenters such as the Pennsylvania Public Utility Commission (PA PUC), which urges the Commission to adopt baseline requirements for ensuring continuity of power during commercial power outages applicable to providers of interconnected VoIP-based services that do not provide line power at their central office, but rather rely on backup power.

14. Specifically, we find that public safety officers, first responders and other public officials have a need to communicate with citizens through whatever means possible, and 911 service plays an important role in this regard. Indeed, consumer advocates and NASUCA providers emphasize the need to adopt robust backup power requirements to ensure public safety. For example, Public Knowledge notes that right now consumers of traditional telephone service are “guaranteed backup power during power outages” and “many consumers keep their landline service specifically to retain this feature.” Public Knowledge further states that, “[w]ith the advent of cordless phones the only time the consumer worried about backup batteries was for their cordless phone or they simply retained a traditional phone to use during emergencies.”

15. NASUCA and many other commenters agree that Commission action will help preserve consumers’ ability to access 911 service. Specifically, NASUCA “fully supports the Commission’s determination to ensure reliable backup power for consumers of IP-based voice and data services across networks that provide residential, fixed service that substitutes for and improves upon the kind of traditional telephony used by people to dial 911.” According to NASUCA, “[b]ackup power requirements will help ensure that service will continue in a power outage.” The National Association of State 911 Administrators (NASNA) similarly observes that “[t]he transition from legacy copper loops to other network technologies means that an important safety net—Central Office provisioning of line power to the subscriber premises—will disappear unless the Commission takes action to mitigate it.” The Communications Workers of America (CWA) asserts that CWA, consumer organizations, state regulatory commissions and public safety associations “support Commission proposals to facilitate the
transition to high-speed broadband networks, protect consumers and promote public safety by upgrading Commission rules regarding back-up power, network changes, and service discontinuance.”

16. We agree that this period of transition gives rise to the need for “upgrading Commission rules.” We observe that the consumers most at risk of losing continuity of 911 communications during commercial power outages are those in the midst of transitioning from legacy copper, or that are new to non-copper media, because they may currently assume they will be able to reach 911 during a power outage. For example, Public Knowledge asserts that “the new technologies with which AT&T and Verizon propose to replace traditional POTS are not self-powered, do not work with vital devices on which consumers rely, and are not available in every community.” Public Knowledge further argues that, “[w]hile technology transitions hold tremendous promise for a state-of-the-art communications network, the loss of guaranteed backup power or shifting backup power responsibility to the consumer are serious changes that could end up creating a network that serves some and not others.”

17. We agree with the commenters who assert that transitions to new technology should not result in 911 service being more vulnerable than when consumers used the legacy network. As we stated in the NPRM, the absence of line powering for some voice services (such as those provided by cable companies) was not an issue that needed to be addressed when legacy line-powered network options were widely available, but it must be addressed as more and more residential subscribers are faced with only VoIP and other residential IP-based services (or legacy services delivered over fiber) as options, because these services typically will require a backup power source to function during power outages. Accordingly, we focus our requirements to support the continued transmission of 911 communications for service that will no longer have line powering capabilities. Because of the importance of the continuity of 911 communications, we also include under the new requirement providers that may have never provided line powering, but that provide services intended to replace traditional POTS services on which consumers have relied for continuous access. With the accelerating transition to new technologies, consumers of these services will no longer have competitive alternatives that come with line-powering capabilities.

18. We reiterate our observation in the NPRM that adequate and reliable access to 911 services and functionalities during emergency conditions is a longstanding public policy objective. Although we recognize that we are in the midst of sweeping change, we believe that voice communications continue to play an essential and central role in the delivery of public safety services, and that this role does not diminish during events that cause power outages. Indeed, it is at these times that consumers most need to know that they will be able to use their home telephone to get help through 911.

19. We recognize that, as noted by some commenters, many users of interconnected VoIP service may well be unconcerned about backup power, choosing instead to rely on their mobile phones or alternative backup sources. Nonetheless, because of the critical nature of 911 communications, we are not persuaded by the argument that there is no need for action to ensure the continuity of 911 communications to homes across the country. Nor are we convinced that we should abandon this effort because of claims that consumer expectations, which have developed over decades, are already reset such that they no longer expect their home phone to work during power outages. Consumers who have yet to abandon (or who have only recently abandoned) line-powered service may not have had their expectations “reset.” At this time of transition, it is these consumers who are more likely to mistakenly believe that they can access emergency services during a power outage when the line power option had already been eliminated.

20. We find merit in NASUCA’s argument that the public interest requires the industry to be responsible for ensuring that its subscribers at least have some option to purchase backup power, either from the service provider or a third party. Therefore, as more fully discussed below, we conclude that the public interest would be best served by ensuring the option for continued access to backup power to maintain continuity of 911 communications during a loss of commercial power.

21. We have previously recognized that the benefits associated with reliable 911 service are substantial. The provision of backup power for network equipment at the subscriber premises promotes the “safety of life and property through the use of wire and radio communications by enabling 911 calls for subscribers of the covered services, when the power is out. Specifically, the rules we adopt today will preserve safety of life by enabling the use of VoIP and other non-line powered services to contact 911 in a commercial power outage, which is what millions of Americans have come to expect from their “home phone.” We expect that providing the option for at least 8 hours of backup power would ensure the ability to make many life-saving 911 calls during commercial power outages. Therefore, we find, as we have before, that “[r]eliable 911 service provides public safety benefits that, while sometimes difficult to quantify, are enormously valuable to individual callers and to the nation as a whole.”

22. We have also previously found that greater access to 911 enables other public safety-related benefits as well. The Commission’s “Text-to-911” proceeding concluded that increasing access to 911 “could yield other benefits, such as reduced property losses and increased probability of apprehending criminal suspects. Also, the increased ability to place 911 calls necessarily means that there is an increased ability to receive calls in an emergency, including calls from public entities attempting to disseminate important information during widespread emergencies (such as evacuation notices). Many communities have installed such a function that “has proven to be effective in other counties and cities, such as San Diego during the fires of 2007.”

B. Covered Services

23. In the NPRM, we sought comment to help identify the most essential communications services that a customer would need to get emergency help during a power outage. We referred to this in the NPRM as “minimally essential” communications. We intended to afford sufficient power for minimally essential communications, including and especially 911 calls and the receipt of emergency alerts and warnings.

24. We also noted that voice services historically have been the primary means of contacting 911 for emergency help. Moreover, we observed that line-powered service can operate continuously and indefinitely during a commercial power failure, and does not require a backup power source to maintain continuity of communications for access to 911. Thus, we proposed that any rules apply to facilities-based, fixed voice services, such as interconnected VoIP, that are not line-powered by the provider.

25. Consistent with this proposal, we conclude that it would be in the best interest of the public to apply our rules
to facilities-based, fixed voice services, such as interconnected VoIP, that are not line-powered by the provider. Our conclusion is based on the fact that, as we stated in the NPRM, voice service is still the primary means of reaching help through 911. We clarify that a wireless voice service is “fixed” for purposes of our rules if it is marketed as a replacement for line-powered telephone service and is intended primarily for use at a fixed location. We further clarify that whether a wireless service is “fixed” does not depend on the regulatory classification of the service under Federal or state law, or on the mobile capabilities of the service. Similarly, the use of a femtocell or similar equipment in a residential setting does not automatically convert a mobile service into a fixed service. The decisive factor is whether the service is intended to function as or substitute for a “fixed” voice service.

26. Although the rule we adopt today would allow for calls other than to or from 911, we find there is not currently a meaningful prioritization of the provision of power for only some voice calls (such as 911 calls) over other communications (such as calls to friends and family). Many commenters generally agree that there is no practical way to maintain power for only some calls. For example, according to Verizon, calibrating a provider’s battery backup obligations and capabilities based upon essential versus non-essential calls would be inconsistent with consumer’s expectations, and unnecessarily complex. The Alarm Industry Communications Committee (AICC), NASUCA, and others argue that it would be technically difficult, if not impossible, to distinguish among certain types of calls or functions in a way that would allow rapid load-shedding of non-essential communications to conserve backup power, if minimally essential communications were defined as only 911 or emergency communications.

27. Some commenters argue for an even broader definition of covered services, citing various examples. Although we recognize that limiting the definition as we have done omits some services on which consumers currently rely in emergencies, we expect that both the consumer backup power needs and our rules will evolve. More importantly, we do not more broadly define covered services because we find that at this time it would be in the best interests of the public to limit application of our rules to discharge our statutory duty to ensure the continued viability of 911. Imposing specific obligations on providers to support other communications could introduce confusion and impose costs on providers that may well exceed the incremental benefits. This is particularly true given the many backup power solutions on the market today that are capable of supporting both essential and non-essential communications.

28. We reject the argument of NCTA and others that adopting backup power rules exclusively for fixed services unduly favors competing mobile services. The rules we adopt herein are intended to clarify the obligations of providers and the expectations of consumers in the provision of services that a customer would perceive as replacing line-powered telephone service. Mobile wireless services increasingly compete with fixed services, but they function differently in multiple respects. Perhaps most significantly, mobile wireless devices are battery-powered in their normal mode of operation. Thus, we do not believe that consumers would reasonably expect such devices to draw line power during a commercial power failure. Moreover, the battery that powers a mobile device provides an inherent source of “backup power” that is often capable of providing far more than 8 hours of service per charge, and often may be charged through additional means, such as a car charger.

29. Therefore, we conclude that, at this time, the appropriate services that should be subject to backup power requirements for effective 911 service during power outages are facilities-based, fixed voice service that is not line-powered by the providers, and is offered as a residential service.

C. Responsibilities of Providers of Covered Services

30. To promote clear expectations and customer choice, we adopt a combination of performance and disclosure requirements to empower consumers to understand the backup power options available to maintain continuity of 911 service and to obtain the equipment necessary to provide such service, if they wish, at the point of sale. Providers of covered services must offer at least one technical solution capable of supporting at least 8 hours of uninterrupted 911 service and install such equipment, at the subscriber’s option and expense, as part of the installation of service. Within three years, providers of covered services also must offer new subscribers at the point of sale and install, at the subscriber’s option and expense, a 24-hour backup power solution if a subscriber desires additional protection. We also adopt a disclosure requirement designed to ensure that both current and new subscribers understand their options with respect to backup power and are aware of the consequences of their decisions whether, and to what extent, to purchase backup power. Finally, we encourage providers of covered services to engage in targeted outreach to the communities they serve to ensure that local emergency managers are aware of the limitations inherent in various fixed, residual voice service technologies commonly used in their areas, as well as backup power options for individuals and communities more broadly to maintain continuity of communications in an emergency.

1. Performance Requirements

a. Duration

31. We adopt backup power requirements that offer consumers meaningful alternatives to address their individualized needs, recognizing that consumers may have different preferences for backup power. Comments in response to the NPRM confirm that “a one-size fits all solution is inappropriate and would disserve customer interests.” Accordingly, we adopt a phased-in approach that will provide consumers with multiple options. As an initial baseline, we will require providers of covered services to offer, at the point of sale, to install a technical solution capable of supporting at least 8 hours of uninterrupted 911 service during a power outage. Within three years, providers must also offer, at the point of sale, a technical solution capable of supporting 24 hours of uninterrupted 911 service if the subscriber desires additional backup power.

To minimize costs and provide flexibility, we do not specify the means by which providers of covered services offer to supply these amounts of backup power; instead, providers are free to develop individual technical solutions. To plan for longer power outages, we strongly encourage providers to inform subscribers of options to extend such uninterrupted service over multiple days and direct subscribers to sources of known compatible accessories such as home, car, or solar chargers. For longer power outages, we do not require providers to offer or install any particular solution, but we strongly encourage providers to inform subscribers at the point of sale, and through annual disclosures to existing and new subscribers discussed below, about known options to ensure uninterrupted 911 service and provide examples of retail sources for associated equipment, which may include third-
party vendor sources if providers do not offer such equipment themselves.

32. In the NPRM, we observed that 8 hours of backup power for network equipment at the subscriber premises appears to be consistent with a number of VoIP deployment models already in practice, though some providers have deployed backup power capabilities for up to 24 hours. We find that 8 hours of backup power is the appropriate amount of time to afford consumers with continuity of power in the critical hours immediately after a power outage, and is a backup power duration that is technically feasible today. The record reflects that the option to receive 8 hours of backup power is already an industry norm, as well as a reasonable baseline for the amount of standby time that is likely to be useful to consumers during emergencies. The United States Telecom Association (US Telecom), for example, states that “provisioning eight hours of backup power is consistent with industry standards and reflects what VoIP providers currently employ.” Verizon offers subscribers a 12-volt battery that provides up to 8 hours of backup for voice services and also observes that “[c]ompanies such as Comcast, Cablevision, and Cox offer a battery with eight hours of backup, and Time Warner offers a battery with a choice of eight or twelve hours.” The Electronic Security Association (ESA) and the Alarm Industry Communications Committee (AICC) urge the Commission to promote adherence to the National Fire Protection Association (NFPA) minimum standard on battery backup, which also is 8 hours. In light of this broad consensus, and based on the fact that 8 hours of backup power is already being provisioned today by some providers, we disagree with commenters who suggest that 8 hours is not an appropriate standard for backup power offerings. We find that it is technically feasible for providers of covered services to offer subscribers the option of at least 8 hours of backup power through provider-supplied backup power equipment or by offering compatible third-party equipment. While many providers already offer their subscribers an 8-hour backup power capability, the rule we adopt today establishes a common baseline that will ensure that consumers have access to backup power options regardless of their provider. This will promote public safety and emergency preparedness by allowing subscribers to reach 911 telephone-based alerts and warnings in the critical hours immediately following a commercial power failure. We emphasize that the requirements we adopt today do not place any obligation on the consumer to purchase backup power; the obligation is placed on the provider not providing line-powered service, to make backup power available to the consumer, and to install appropriate backup power upon initial installation of service if requested by the consumer. To that end, we expect that installers should be able to answer questions about backup power.

33. While we believe that 8 hours of backup power would address the need for continuity of communications immediately after a power outage, we recognize that, in some cases, 8 hours of backup power may not be enough for subscribers to reach critical emergency services during an extended loss of power. AARP urges the Commission to require providers to be “responsible for the deployment and maintenance of voice-enabling CPE that delivers at least 12 hours of standby time.” NASUCA and the Communications Workers of America (CWA) also suggest that a longer time period, such as 12 or 24 hours, would be more useful for subscribers who need a longer duration to attend to other time sensitive matters that arise during the course of a natural disaster or other emergency. While industry commenters oppose a mandate that installers should be able to answer questions about backup power.

34. In light of the critical need for maintaining 911 service during more severe and long-lasting power failures, we will require providers to offer subscribers a 24-hour backup power solution within three years. The record indicates that the provision of 24 hours of backup power is at least technically feasible today. ACA has “determined that batteries with 24 hour stand by capability can be ordered from at least one vendor but are not immediately available because they are not widely used.” As explained below, we do not require providers to offer technologically distinct 8-hour and 24-hour solutions, so a 24-hour solution could consist simply of three 8-hour batteries. Many providers that offer an 8-hour solution are therefore likely to be capable of offering a 24-hour solution with minimal additional difficulty. That said, we want to encourage continued innovation in the development of 24-hour and longer term backup power solutions and avoid locking in solutions that are minimally compliant but that may not provide the best value to consumers. We will therefore phase-in the 24-hour requirement over three years, during which time we expect providers to work diligently to implement innovative solutions for providing at least 24 hours of backup power that improve upon current offerings in terms of cost, reliability and ease of use. This is consistent with ACA’s recommendation for a phase-in of the 24-hour battery requirement for smaller providers; however, we find that given the overall market conditions for 24-hour battery supplies, including questions about immediate availability, it is appropriate to phase in the requirements for all providers, regardless of size. While NASUCA recommends that the Commission monitor battery backup power developments and phase in the requirements as soon as the market will allow, we find that providing a date certain both allows the market sufficient time to develop, and places a backstop for development, thereby spurring innovation in a reasonable timeframe. In the meantime, we encourage but do not require providers to offer a 24-hour solution using available technologies.

35. As commenters note, the need for continued access to 911 during an extended power outage does not end after 8, or even 24, hours. For example, Public Knowledge argues that “‘a minimum time of seven days backup power is a reasonable requirement that will keep consumers safe before, during, and after a natural disaster, and allow them to rebuild their communities.’” Based on a study by the Environmental and Energy Study Institute, Public Knowledge observes that restoring power after Hurricane Sandy and Hurricane Katrina took 12 and 15 days respectively, and on average takes 7 to 23 days. To address such extended losses of commercial power Public Knowledge asserts that “carriers must prioritize the adoption of devices that use batteries that can last days and are not proprietary.” Other commenters argue that “Americans have come to trust and expect basic telephone service to work indefinitely, particularly during power outages caused by natural disasters and public safety emergencies” and urge us to adopt even longer backup power requirements, ranging from seven days to two weeks.

36. We are not persuaded that a requirement for providers of covered services to offer or install more than 24 hours of backup power is necessary at
this time. All things equal, we would prefer access to 911 during a loss of commercial power to last indefinitely, as consumers have come to expect with line-powered services. We recognize, however, that there are technical, operational, and cost considerations that must be balanced against this theoretical desire. For reasons discussed above, we believe that it is both technically feasible and consistent with current business models for covered services to require providers to offer options for 8 and 24 hours of backup power on the timelines specified in our rules. We agree, however, with commenters who suggest that a mandate to offer backup power for multi-day outages could impose unnecessary burdens on service providers and excessive costs on consumers for comparatively little public safety benefit. As CSRIC has observed, backup power technologies are evolving, and the cost of more advanced batteries such as lithium-ion cells is likely to decrease over time as other options such as power-over-Ethernet become more widespread. We will continue to monitor these developments to ensure that our rules keep pace. Moreover, power outages of extended duration allow well-informed consumers time to recharge their existing batteries or make other arrangements to reach emergency assistance until power is restored. We therefore strongly encourage providers to inform subscribers, both at the point of sale and annually thereafter, of known ways consumers can maintain connectivity during extended power outages. As an example, this could include guidance on restocking or recharging a power supply used to provide 8- or 24-hour capability. Providers could also give information on purchasing other accessories such as solar, home or car chargers that may allow exhausted batteries to be recharged and that are compatible with the provider’s equipment. Providers need not offer such accessories themselves or endorse particular third-party suppliers, but they should provide sufficient information, including technical specifications when necessary, for subscribers to obtain compatible accessories from commercial sources. Such information may be provided through welcome kits, brochures, emails to subscribers, or any other means reasonably calculated to reach each subscriber, as discussed below, while providing due consideration for any preference expressed by the customer. Providers may also deploy mobile charging stations to areas affected by an extended outage, and may inform subscribers when such mobile charging stations are made available.

37. In adopting these requirements, we acknowledge observations that “[n]otwithstanding the availability of backup batteries, many customers today choose not to obtain a battery, given the growing reliance on wireless or the customers’ use of handsets or other devices that themselves require commercial power to operate.” We also agree with commenters such as Verizon that “[c]ustomers should be free to decline [a backup] battery, depending on their personal preference.” We further acknowledge that comments in the record indicate that, when it is offered, consumers often may not choose to avail themselves of options to purchase backup power. Commenters note, for example, that many subscribers of fixed, residential VoIP service also purchase mobile voice service that provides an alternate means of reaching 911 in an emergency, and that others prefer cordless phones that require backup power beyond that supplied by service provider networks. Nevertheless, some consumers—particularly the elderly and other populations that are at the greatest risk during an emergency—may not subscribe to mobile wireless service and may rely solely on the continued functionality of their residential voice service to reach 911. Furthermore, mobile networks are not designed in the same manner as wireline networks and may become overloaded in times of extreme use in an emergency situation, and thus be unavailable for use to reach 911. We emphasize that nothing in our rules forces consumers to purchase backup power they do not want. We require only that consumers who want service that will work during power outages and have not otherwise provided for such uninterrupted service have the option of obtaining that capability, and that they have sufficient information to make an informed decision. 38. In the NPRM, we discussed the duration of backup power in terms of “the availability of any backup power, not actual talk time.” Commenters differ on whether backup power should be measured in terms of standby time, talk time, or some other metric that takes into account variations in battery life under different conditions. NASUCA, for example, questions provider assertions about backup battery life on the grounds that 8 hours of battery life yields far less actual talk time, and because batteries deteriorate as they age. Public Knowledge observes that the actual duration of a battery depends on its use, and that the more calls are placed, the more quickly backup power is depleted. In light of these potential discrepancies, we believe that adopting a uniform definition of “backup power” is necessary to avoid potential consumer confusion. Therefore, we base our backup power requirements on the amount of time a technical solution can maintain a covered service in standby mode, i.e., able to provide a dial tone and to initiate and receive voice calls, but not necessarily in continuous use. We believe that standby time is an appropriate metric, because our rules are premised on the need for covered services to be available to dial 911 or receive incoming communications such as emergency alerts and warnings during emergencies, not necessarily on the need for extended talk time when commercial power fails. We recognize that actual battery life may vary depending on how often subscribers place calls and how long such calls last, but we conclude it would not be practical to account for such situation-specific variations in our rules and that standby time is a more consistent and useful point of comparison. Accordingly, we require providers of covered services to offer subscribers the option to obtain backup power for 8 hours (effective 120 days after publication of this Report and Order in the Federal Register) or 24 hours (effective within three years thereafter) of standby time, measured at rated specifications, without a duration requirement for actual talk time.

b. Methods of Provisioning Backup Power

39. We agree with commenters who advocate flexibility in how providers achieve continuity of 911 access for the time periods discussed above. The record reflects that providers currently employ a variety of backup power technologies and that a range of backup power options are also available direct-to-consumer from third-party sources. CSRIC, for example, identifies nine “use cases” for residential VoIP deployment, with a range of equipment functioning as an analog telephone adaptor (ATA) with varying levels of battery backup. CSRIC observes that “[t]he most commonly deployed model for VoIP services in the United States is to locate the ATA function in a network device, installed inside the living unit.” In addition, as NCTA states, uninterruptible power supplies (UPS) that can power multiple devices during a power outage are already widely available at national retailers. Bright House also describes “in-home, in-vehicle options available to subscribers like UPS, portable power packs, solar, and
provide subscribers with the means to provide a mechanism to monitor battery status, and determine whether the battery is degraded. AARP states that this can be done through remote monitoring of batteries as part of the service offered to subscribers, or through LEDs visible to subscribers. Other commenters suggest that the backup power system contain a self-monitoring feature that notifies subscribers audibly and visually when the backup power system is in use, and when it is running low. ESA notes, however, that some subscribers may not pay attention to these warnings, and that it may require personal interaction with subscribers to assist with upgrading or changing a battery that needs attention. On the other hand, service providers generally argue that requiring remote monitoring of backup power is either impractical with current technology or, even if technically feasible, of limited use to subscribers or providers. AT&T contends that “IP-based voice service providers generally do not assume responsibility for monitoring their customers’ backup batteries,” and that “[r]elying on customers, rather than service providers, to monitor and maintain battery backup power for network equipment at the subscriber premises makes eminent sense given technological and marketplace changes.”

42. We do not believe it would serve the public interest to require providers of covered services to remotely monitor backup power status at this time. Similarly, we decline to adopt any requirement that providers inspect or test backup power equipment after fulfilling their initial responsibility under our rules to offer subscribers the option, at the point of sale, for backup power to be installed as part of the initiation of service. This is consistent with CSRIC’s observations that “[i]mproving the consumer’s ability to manage their own power is either impractical with current technology or, even if technically feasible, of limited use to subscribers or providers.” While we believe service providers are in the best position to identify and make available backup power solutions compatible with and appropriately sized for specific covered services, we agree with commenters who believe subscribers are in the best position to monitor backup power once installed, and in light of the disclosure requirements we are implementing designed to ensure they are adequately informed on how to do so. With respect to batteries, we are not persuaded that battery monitoring technology has evolved to the point of allowing service providers to conduct useful remote monitoring of battery status without raising costs to consumers or diverting resources away from more important network reliability issues through an increase in false failure alarms. We observe, however, that our allocation of monitoring responsibility to consumers is based on the expectation that service providers offer adequate information for subscribers to understand when their equipment is functioning properly and when it may require maintenance or replacement. Service providers should also inform subscribers of the potential for batteries to degrade over time and either make replacement batteries available for self-installation at the subscriber’s expense or provide sufficient information for subscribers to obtain replacement batteries from third parties.

d. No Obligation to Retrofit

43. Some service providers express concerns about the cost and complexity of any obligation to retrofit currently installed equipment to comply with any backup power requirements the Commission adopts. AT&T, for example, states that “[i]f service providers were required to provide CPE backup power, the Commission should require only prospective implementation in order to avoid the technological pitfalls of retrofitting prior deployments.” TTTA argues that “[r]etrofitting existing service deployments for customers who are not interested in battery backup power would divert resources from new deployments, thus slowing the expansion of services to customers who desire advanced broadband capabilities.” We agree and decline to adopt any obligation that providers of covered services retrofit currently-deployed equipment to accommodate the amount of backup power specified in our rules for new installations. The record reflects that some covered services are currently deployed without backup power and that consumers may prefer to continue using their existing equipment. Accordingly, we require only that backup power options be offered at the point of sale. Providers may continue offering retrofit options for backup power upgrades to existing customers or those who decline the option at the point of sale, but they are under no obligation to do so. We note, however, that even service providers that do not currently offer backup power acknowledge that third-party UPS units may allow subscribers to maintain communications capabilities without the need to retrofit equipment. Therefore, we conclude that providers’ obligations to current subscribers

manual cranks that power multiple devices during an outage and offer a more compelling and flexible solution to subscribers at comparable prices. Some parties also comment that subscribers who use more versatile power options such as UPS should not have to also pay for the duplicative cost of an additional limited-function battery; nor should the Commission require consumers to pay for a backup power option that does not work in their situation.

40. We do not require use of a specific technical solution or combination of solutions. Providers, which are not providing line-powered service, have flexibility to develop and offer their own backup power solutions, as long as those solutions comply with the rules we adopt today. In addition, we expect that installers should be able to answer questions about backup power. For example, a provider could offer a solution with a single, internal battery delivering 8 hours of backup power. With respect to the 24-hour option required within three years, providers may choose to offer consumers a single 24-hour battery (or battery tray as offered by Verizon), three 8-hour batteries, or some other combination of installed and spare batteries, UPS systems or other technologies to provide 24 hours total. If the solution requires a proprietary battery or other equipment that is not widely available in retail stores, the equipment should be provided as part of the installation of service. If, however, the solution accepts commonly available equipment such as D-Cell batteries, providers need not supply such equipment themselves, as long as they notify subscribers at the point of sale that it is not included and must be supplied by the subscriber for the solution to function properly. In cases involving spare batteries that are not widely available at retail stores, the solution offered to subscribers should also include a charger or some other method of ensuring that such batteries are stored in a charged state.

c. Battery Monitoring and Maintenance

41. In the NPRM, we sought comment on whether the provider should have any responsibility to monitor backup power status to determine whether the battery had degraded run time or performance. Generally, the comments of individual consumers and consumer advocacy organizations support requiring providers either to maintain and monitor the backup power or to provide subscribers with the means to do such monitoring. For example, AARP urges the Commission to adopt as a rule the CSRIC recommendation that service
should include the disclosure requirements discussed below and the option for subscribers to self-install commercially available backup power solutions that are compatible with existing equipment.

e. Compensation and Costs for Providing Backup Power

44. In the NPRM, we proposed that any requirement for service providers to ensure a substitute for line power would be premised on the condition that such providers “would be entitled to commercially reasonable compensation in exchange for providing this service.” In response, Public Knowledge asserts that the Commission should use legacy POTS as a baseline and require providers to furnish backup power without an additional fee because, until the transition to IP-based services, reliability has always been paid for as part of a subscriber’s phone bill, and allowing providers to charge for backup power for the same service via new technology would be a step backward. However, this argument disregards the record evidence that batteries or other potential substitutes for line powering carry a not insignificant additional cost over an entire network, and that it is not unreasonable to permit providers to recoup those additional costs from those subscribers who have need for the additional coverage. We also note that it is current practice among many interconnected VoIP providers to charge an extra fee for batteries or other backup power capabilities, suggesting that the expectations Public Knowledge cites may be changing as consumers increasingly adopt VoIP services. As CSRIC has observed, “[o]ne clear trend across all VoIP use cases is that battery backup is increasingly being offered as an option to the consumer, with the cost and maintenance of the UPS and batteries being the consumer’s responsibility.” Ultimately, we are persuaded that subscribers should not have to pay for backup power if they do not want. As discussed above, consumers may desire different amounts of backup power—or none at all—depending on their individual circumstances.

45. Accordingly, we conclude that providers of covered services may charge subscribers for the backup power capabilities provided under our rules, if subscribers wish to purchase such capabilities. We emphasize that we do not specify the rates at which providers of covered services may offer backup power or related accessories, we expect market forces that backup power is offered at competitive prices. A service provider can receive compensation for all aspects of implementing the rules we adopt today, including the backup power installation, and costs of equipment and labor, from the consumer that elects to have backup power installed. And we do not preclude service providers from including backup power capabilities without separate charge, if they choose to do so for competitive or other reasons.

46. By requiring only that service providers provision backup power upon subscriber request at point of sale, and at the requesting subscriber’s expense, we have effectively negated the argument that these rules will substantially increase costs to providers. The majority of commenters who raise issues related to costs base their arguments on the assumption that the Commission would mandate a universal backup power solution across all subscribers, including retrofitting existing subscribers. The action we take today will substantially limit the providers’ costs by requiring backup power installations only for customers that request backup power at the point of sale, and at those customers’ expense.

Fiber to the Home Council Americas states that “while the industry has generally supplied backup batteries to all subscribers, it would make a material difference to the cost of a build, enabling expansion into less dense areas, if it could supply battery backup only to those subscribers that expressly want it—a number all-fiber service providers has determined is not great.” Similarly, NCTA stated that in their experience only a small number of customers have purchased backup power. We also find concerns about the environmental effects of requiring all customers to obtain backup power are inapplicable because we do not make such a requirement.

47. There are additional factors that minimize the costs associated with compliance for the covered providers. First, as noted previously, the record indicates that numerous entities comprising a significant share of the IP voice services market are already offering their customers 8 hours of backup power; for those entities no additional costs are necessary. To the extent that a service provider is not currently offering the requisite 8 hours of backup power, the fact that numerous providers are currently offering such a solution indicates that solutions exist and are widely available. Accordingly, there is little need to custom-design a solution when many of the solutions can be used universally. Indeed, providers may avoid the costs of supplying or installing a proprietary solution. This also saves providers the costs of supplying batteries directly. The same cost-mitigating principles apply to the discussion of 24-hour and extended duration backup power; the commercial market for this solution already exists and even the smaller providers are confident in their ability to provide this level of backup power if provided ample transition. The record also indicates that many providers already offer some form of backup power, even if it is not an 8-hour solution, and therefore would be familiar with the practice of installing backup power solutions for their customers. Because the cost to providers of complying with this rule should be minimal both at the outset as well as when the 24-hour requirement takes effect, and the particular benefit to the public of enhanced continuity of communications to reach help through 911 during power outages is substantial, we conclude that our action today produces a net public benefit.

2. Subscriber Disclosure Obligations

a. Need for Subscriber Disclosure

48. In the NPRM, we sought comment on whether we should require providers to develop and implement consumer education plans regarding the availability of backup power, and noted our belief that such plans “would be critical to consumers’ ability to successfully self-provision.”

49. Commenters representing government stakeholders and consumers support such a requirement. For example, PA PUC states that, if providers require their customers to be responsible for purchasing or replacing backup power batteries, providers “must develop and implement outreach and education programs to ensure customers are aware that [customers] are responsible for providing their own backup power.” The New York Public Service Commission indicates that it is “critical that information about the consumer’s role in maintaining continuity of power is transmitted to the customer by the service provider,” and that providers need to develop programs to “ensure consumers are aware that [they] are responsible for providing their own backup power.” The Attorneys General for the Peoples of the States of Illinois and New York state that, because of the reluctance to advertise a diminished service, “carriers may not emphasize the need for backup power disclosures.” The FCC’s Intergovernmental Advisory Committee asserts that “providers should be required to communicate effectively and accurately the services that may no
longer be available and options for
consumers to obtain comparable
services, including options with respect
to backup power supplies.”

50. Industry stakeholders, on the
other hand, oppose such a requirement. The
Independent Telephone &
Telecommunications Alliance (ITTA)
states that there is “no evidence that
additional consumer education would
be helpful or necessary, and argues that
a requirement is “unnecessary and a
waste of resources.” AT&T recommends
that the Commission refrain from
imposing a consumer education
requirement, and instead work with
providers to review backup power best
practices for consumer education.
Others, such as CenturyLink, Hawaiian
Telcom, NCTA, and Verizon, suggest
that the Commission support the
implementation of CSRIC
recommendations regarding consumer
notification. They argue that this would
give providers the flexibility to
implement consumer education
measures as their networks and business
tools warrant.

51. Others argue that a requirement is
unnecessary because providers already
give consumers information related to
backup power. For example, NCTA
argues that the Commission’s existing
rules already “ensure that consumers
are made aware of the backup power
ramifications of choosing a VoIP
service,” and require providers at the
initiation of interconnected VoIP service
to “inform consumers of the
circumstances under which E911
service may not be available,’ . . .
including ‘loss of electrical power.’ ”

ITTA notes that it is “standard industry
practice for interconnected VoIP
providers to notify consumers regarding
the potential limitations of IP-enabled
voice services and equipment during a
power outage.” Fiber to the Home
Council Americas (FTTH Council) also
asserts that industry efforts to notify
consumers about battery backup
availability are effective based on
assumptions regarding consumer
adoption of wireless and VoIP services.

52. AT&T states that providers of IP-
based voice service already educate
consumers on the necessity of a backup
battery during a power outage and
provide information about the backup
battery, including practices for
prolonging battery life, where to
purchase battery replacement, and
replacement instructions. CenturyLink
indicates that it plans to provide
information regarding “sample batteries
that would work with [CenturyLink]
equipment as well as suppliers of such
equipment for those customers wishing
to provide their own backup power.”

Charter and Cablevision state that they
are making “significant efforts to
educate their customers about the VoIP
services they offer, including that such
service will not work during a power
outage without a backup battery.”

53. We find that the lack of uniformity
in providers’ backup power information,
and as commenters present, lack of
consumer awareness at a time of
technological transition, may lead to
consumer confusion about consumer
expectations and responsibilities in the
access of 911 service during power
outages. While some providers already
offer or plan to make available
information to consumers in the near
future, it appears from comments
submitted and providers’ Web sites that
the information provided to consumers
is not consistent across the industry.
This lack of uniformity may lead to
customer confusion at a time of
technological transition from services
provided over copper networks to
services provided over IP-based
networks, and agree with commenters
that there are consumers who “may not
be aware that VoIP and wireless service
operate differently from traditional
landline telephony in a commercial
power outage.” We acknowledge the
concerns of commenters representing
unique populations, such as AARP,
states that “[g]iven the diversity
of service provider practices . . . the
level of consumer understanding of CPE
battery backup issues is certainly not
uniform.” Further, subscriber
complaints reveal that current
disclosure practices are likely
insufficient. For example, the
Commission’s consumer complaints
portal reveals that some subscribers are
frustrated by VoIP service providers’
failure to inform subscribers about
the need to self-provision a battery to
operate backup power in order to access
911 services. Based on the record,
while we acknowledge that there are some
disclosures already mandated and some
additional information provided
voluntarily, we are not convinced
disclosures currently required only for
interconnected VoIP providers, are of
sufficient scope or uniformity across all
covered providers, to satisfy the
Commission’s obligation to promote the
safety of life and property and ensure
consistent 911 services. Although not all
subscribers may receive backup power
information from more than one
provider in a given year, we
acknowledge that backup power
information may be confusing especially
for uninitiated consumers during the
technology transition, or
those who may need to switch providers
often, such as military families needing
to relocate. We find that it is in the
public interest for the Commission to
establish a uniform requirement to
provide minimum information as
described below in order to ensure that
all subscribers of covered services are
equipped with necessary information to
access 911 services during power
outages regardless of provider or
technology used.

54. Adoption of best practices
established by CSRIC, as recommended
by some industry commenters, may
help, and we do not intend to
discourage adoption of these practices.
However, we are not convinced that the
voluntary adoption of these practices
without a standard, mandatory baseline
will eliminate consumer confusion. We
therefore address these concerns by
requiring minimum subscriber
disclosure obligations, while at the same
time encouraging providers to
voluntarily follow additional CSRIC best
practices regarding backup power.

55. As NCTA discloses, current
Commission rules require a limited
customer notification for interconnected
VoIP service providers. This
requirement, however, is only for a
subset of covered providers considered
in this Report and Order, and we find
that the information currently required
is too limited to fully inform consumers
about backup power. Specifically,
section 9.5(o)(1) of the Commission
rules requires customer notifications for
circumstances such as “loss of electrical
power,” “under which E911 service
may not be available through the
interconnected VoIP service or may be
in some way limited by comparison to
traditional E911 service.” Informing
consumers of the circumstances under
which their E911 service is not available
does not adequately inform a consumer
on how to purchase, efficiently use,
monitor, or replace backup power at the
consumer’s premises.

56. We conclude that requiring
providers to develop and implement
subscriber disclosures regarding backup
power with minimum baseline
disclosures serves the public interest
and will promote access to 911 while
being of minimal cost to the providers.
As CenturyLink notes, there is a clear
public benefit in promoting consumers’
awareness of the need for affirmative
action to acquire and maintain backup
power. According to the
Communications Workers of America
(CWA), “Commission oversight is
essential to encourage . . . consumer
education about the time limits and
capabilities of backup power.”
Attorneys General state that
“enabling consumers to prepare
themselves for emergencies and avoiding public confusion should be fundamental Commission goals.” We agree with these commenters, and others, who recognize the importance of consumer information in managing the historical consumer expectations regarding continuity of communications. As described in detail below, we also find the costs to providers in making the required disclosure to be minimal.

b. Minimum Information Elements

57. The disclosure requirements adopted today are intended to equip subscribers with necessary information to purchase and maintain a source of backup power to enhance their ability to maintain access to reliable 911 service from their homes. Several parties commented on what information should be included in the disclosures. For example, some commenters strongly support including information about battery life spans, procedures for ordering, installing, replacing, and extending battery life during a power outage. The City of New York recommends that we require providers to furnish information to assist in extending the “useful life of battery backup” such as powering off the system or closing applications. APCO suggests that a public education requirement include information on “any impact to 9–1–1 services.” The respective Attorneys General for the State of Illinois and the State of New York strongly support consumer education addressing the many factors that can affect the amount of “stand-by time” a backup power solution provides. The California PUC urges the Commission “to mandate that service providers give customers educational materials consistent with California’s existing requirements,” which include, for example, requiring providers to tell their customers that their services require backup power on the customer’s premises, limitations of service, and potential service failure during power outages. The California PUC also requires providers to tell consumers about how to best “maximize the ability to make or receive necessary phone calls during an outage.”

58. In addition to commenting on the appropriate level of disclosure in any Commission requirements, some commented on the opportunity for states to require more extensive disclosure. For example, the California PUC requests that the Commission allow the states to “adopt more extensive disclosure requirements.” Similarly, NARUC suggested that the Commission establish “a floor” that does not impact more protective state-level measures.

59. Several industry commenters identified information that is currently included in some backup power notifications to subscribers. For example, ACA asserts that providers inform potential and current subscribers that their voice service is not powered by the network, and during a power outage, without battery backup, the subscriber may lose access to 911. ACA explains that this notice also alerts customers about specific backup power capabilities of the equipment. 60. We agree with the commenters who suggest that the Commission adopt minimal requirements for the types of information that service providers must give subscribers, regarding backup power. This will decrease the likelihood of consumer confusion, and ensure that all subscribers have access to basic information about the need for, and how to acquire and conserve, backup power. In this respect, we observe that several providers rely on placeholder information to their customers; however, the amount and type of information given varies greatly from one provider to another, and thus gives rise to the potential for consumer confusion. This confusion may lead the consumer to fail to take proper precautions to acquire and maintain backup power, and ultimately result in the inability to access 911 at a critical moment during a power outage. Thus, we find it in the public interest to identify minimum information that must be communicated to consumers regarding backup power. In this respect, we require providers to disclose to subscribers the following information: (1) Availability of backup power sources; (2) service limitations with and without backup power during a power outage; (3) purchase and replacement options; (4) expected backup power duration; (5) proper usage and storage conditions for the backup power source; (6) subscriber backup power self-testing and monitoring instructions; and (7) backup power warranty details, if any. In order to minimize the burden on smaller providers, we direct the PSHSB to work with CGB to develop such forms or other documents, prior to the implementation date of these rules for smaller providers, as herein defined, for the use of smaller providers in disclosing the required notifications to their subscribers, including subscribers with disabilities.

61. Availability of Backup Power Sources. Subscribers must be made aware whether service is capable of accepting backup power and, after the initiation of service, whether they may obtain backup power from the provider or from a third party. Some providers post this information online, but we find that the posted information is both too limited and not readily accessible by all subscribers. Therefore, it is insufficient notice to subscribers of a critical piece of information that they need to ensure continuity of access to critical 911 services during a power outage. Accordingly, we require providers to inform new and existing subscribers about the availability of compatible backup power sources for their service, as outlined below. Again, we emphasize that providers are not required to research and/or provide information on every possible backup power source that could potentially be compatible with a Covered Service; disclosure obligations under our rules are limited to basic information allowing consumers to make informed choices about their purchase and use of backup power to maintain continuity of access to 911.

62. Service Limitations With and Without Backup Power. We require providers of Covered Service to notify subscribers about the service limitations with and without the use of a backup power source. As we stated in the NPRM, consumers of wireline telephony may expect their plug-in phones to work during a power outage without any further action on their part. Non-copper based networks and services not based on TDM may not support these traditional wireline functionalities, or may not support them in the ways consumers have come to expect. We are persuaded by commenters who support more fulsome disclosures of service limitations. Accordingly, we require providers of Covered Service to inform subscribers about the impact of power outages on the use of 911 services and the type of service that will continue to work with backup power. For example, the obligation may be satisfied by notifying subscribers that voice service will be unavailable during a power outage without backup power, and that this backup power will not also power services other than voice. Furthermore, to the extent the provider has information about other services at the subscriber premises—for example, home security, medical monitoring devices, or other similar equipment—the provider should notify the subscriber that these services will not be powered by the backup power source for voice service.

63. At this time, we decline to require providers of a Covered Service to disclose the limitations of cordless handsets during power outages. Commenters such as US Telecom and California PUC note that cordless
phones rely on commercial power, and will not function during a power outage. Accordingly, the California PUC supports a requirement that providers tell consumers that “cordless phones will not work in power outage.” However, we observe that the concern about cordless phones not functioning during a power outage exists regardless of the underlying network providing service to a subscriber; that is, it is an equipment issue that does not depend on the type of underlying network—copper, fiber, or cable. Accordingly, we do not believe it is imperative to impose such an obligation here on the service provider.

64. Purchasing and Replacement Options. Providers of Covered Service must inform subscribers about backup power purchasing and replacement options to enable subscribers to make informed decisions regarding whether to purchase backup power and how to find backup power that is compatible with the service. If, after the initiation of service, the provider does not sell a backup power source directly to subscribers, the provider must give subscribers enough identification information about what type of power source is compatible as well as purchasing options. Such identifying information must, at a minimum, include where to purchase a power source, the approximate cost, and the voltage and type of battery that is compatible with the service. That many providers currently make this information available suggests that the burden of doing so is not unreasonable.

65. Backup Power Duration. Providers of Covered Service must inform subscribers about the expected duration of the backup power source and factors that impact duration, e.g., usage and storage conditions. We agree with the commenters who argue that standby time can be affected by many factors. Therefore, in addition to explaining the length of time the provider’s backup power source is expected to power the service in standby mode and, to the extent possible, the expected amount of talk time, providers of Covered Service must notify subscribers of the proper backup power usage and storage conditions, and how these affect the backup power source operation during a power outage. This obligation includes identifying how subscribers may limit and conserve backup power both before and during a power outage. We agree with the suggestion of the City of New York that providers furnish “information to assist the [subscriber] in extending the useful life of battery backup.” Accordingly, providers of Covered Service must advise subscribers of the proper backup power storage and charging conditions so that subscribers know, for example, whether battery power life, capacity, or run time will decline, whether the batteries must be replaced after a certain amount of time, and the proper storage temperatures. That is, the information provided must at a minimum clearly inform subscribers about the impact of environmental factors.

66. We strongly encourage providers to assist subscribers in developing a plan for extended backup power by notifying them of options to extend backup power beyond the life of the battery. For example, providers could inform subscribers that they could purchase several backup power units for use during prolonged outages, and provide directions for rotating these as required to keep the units charged. We also strongly encourage providers to inform subscribers of any available accessories such as solar or car chargers, which may be able to recharge a depleted backup power unit. And, when applicable, providers should inform subscribers of the availability of deployed mobile charging stations. This information will arm subscribers with the knowledge necessary to be prepared for extended power outages and to take steps to mitigate disruption to their 911 communications.

67. Testing and Monitoring. Although we do not require providers to monitor backup power sources, when the subscriber purchases backup power directly from the provider, the provider must inform and instruct subscribers about how to self-monitor and self-test the backup power source. Several commenters support such a requirement, and we find the analogy in the comments of MDTC to be appropriate: “like smoke alarms, IP equipment have similar importance to personal and public safety and is usually dependent upon the user for periodic testing and battery replacement.” We are persuaded by these commenters that providers must clearly explain how a subscriber may test, monitor, and maintain the backup power source. We observe that several providers are currently effectively providing pictorial or other detailed explanations about subscriber self-testing and self-monitoring of backup power. Given their ongoing relationship with their subscribers, we find that providers are in the best position to notify and remind subscribers about how to test and monitor backup power. By furnishing specific instructions to subscribers on how to self-monitor and test backup power sources, providers will decrease consumer confusion, and greatly enhance the public’s ability to maintain critical communications during power outages.

68. Warranty. If the subscriber acquires the backup power from the provider, the provider must explain the elements of the warranty, if any, such as the warranty expiration date, and under what circumstances a replacement would be provided. We note that several providers already effectively offer online information regarding replacement procedures, which suggests that this is information that is helpful to consumers in preserving their ability to reach 911.

69. Each element of the information described above must be given to subscribers both at the point of sale and annually thereafter, as described below. This information will help subscribers plan in advance to extend the effectiveness of their backup power and ultimately, as we stated in the NPRM, count on the continued availability of 911 service in harsh weather conditions or other emergencies when consumers are most vulnerable.

70. We sought comment in the NPRM on when providers should make information available regarding backup power. For example, we asked whether the information should be made available at the point of sale, at the initial set up of service, or at some other point in the process. We also asked whether providers should make detailed backup power information available prior to a predicted extreme weather event or other anticipated emergency.

71. Commenters support disclosure of backup power information to subscribers at various points in time. For example, the Attorneys General argue that the Commission should inform subscribers “when new service requires additional equipment to access emergency services in a power outage.” The CPUC supports providing information upon “service initiation and annually thereafter regarding backup power,” as well as sending “an annual reminder to customers to check the status of their battery.” On the other hand, providers such as CenturyLink see value in asking “at the point-of-sale” if their customers want backup power, at which time consumers will be assessed a “one-time, non-recurring charge.”

72. We are persuaded by comments supporting an initial disclosure at the point of sale for the new service and an annual disclosure for all subscribers, both new and existing, with AT&T that subscribers should have the information they need to “shop among
competitive alternatives for backup power, including the alternative of opting out of backup power altogether.” As commenters note, service providers have an important role in disseminating information to their subscribers. AARP states that the “availability and distribution of accurate information related to CPE backup power from reliable sources is an important means to empower consumers.” Equipped with initial and annual notifications, including the disclosures and information as described above, all subscribers, both new and existing, will be in a better position to make backup power purchase decisions and conduct regular maintenance in order to ensure access to 911 services during power outages. 73. We also sought comment on how providers should make backup power information available to consumers. Commenters suggest that providers should offer information on Web sites, and in individual electronic and paper billing materials. ACA, for example, states that its members use a variety of approaches, such as posting information on the operator’s Web site, to inform subscribers about backup power supplies for CPE. CenturyLink states that “service providers are increasingly communicating with customers about the issue of backup power,” and supplementing brochures provided to customers with information on the company Web site. ESA raises concerns that there may be scenarios, for example with the elderly, requiring “personal interaction with consumers to assist with upgrading or changing a battery.” NTCA, GVNW, and Vantage Point Solutions suggest that consumers that “utilize an assistive device in connection with a disability” should be part of the consumer education process. 74. We seek to provide flexibility regarding the manner in which providers inform their subscribers, while also honoring any preferences expressed by customers. We thus permit providers to convey both the initial and annual disclosures and information to assist with upgrading or changing a battery.

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inquired whether there is a need for measures beyond written notice to customers. The few commenters that addressed this issue see a need for outreach beyond written disclosures to subscribers for the Nation to make the transition to an all-IP environment effectively and with the least amount of consumer confusion. We agree with NASUCA that a backup requirement without a comprehensive consumer education plan would be of limited value, and we find that a truly comprehensive plan should contain an outreach component. That is, as noted by the Massachusetts Department of Telecommunications and Cable (MDTC), written notice to subscribers is only a portion of the consumer outreach and education that is necessary during these times of technology transitions.

79. We agree with MDTC that to provide for flexibility in the delivery of technology transition information, while ensuring its accuracy and effectiveness, providers should develop outreach and education plans in coordination with state, local, and tribal agencies and community organizations. Our Intergovernmental Advisory Committee (IAC) notes that “education efforts must include all levels of governments that interact with consumers. In this manner, state, local and tribal governments will be able to assist consumers in making informed choices that satisfy their communications needs.” However, the IAC further believes that providers instead of the FCC, state, local or tribal governments should have the primary responsibility to develop consumer outreach on technology transitions. Thus, the IAC asserts that the FCC should “require [ ] providers to inform consumers of their options well before actual transition occurs.” For example, the IAC recommends that “providers should have dedicated phone, Web site and email contacts for consumers to report issues, and to obtain information. The objective of such outreach should be to provide information and answer questions, rather than market new services to consumers.”

80. We recognize that many providers already offer consumer education beyond providing mere written notice, and they already engage in community outreach as well. We see great value in providers forging closer relationships with communities, so that local officials can know and understand the likelihood that their residents will be able to summon help, or communicate the status of their welfare in an extended power outage. Community outreach can also help ensure the best possible outcome before disaster strikes (for example, by encouraging communities to maintain sufficient supplies of batteries and other UPS equipment).

81. We also note that many communities have a robust telephone-based alert capability to warn residents of emergencies in their area. For this reason, and for the great value in being able to receive incoming calls from emergency services personnel, providers of covered services should organize their outreach to subscribers pursuant to this Report and Order around the goal of sustaining continuous communications availability.

82. In order to minimize cost and provide maximum flexibility, at this time, we encourage, but do not require, all providers to engage in the type of community outreach that would be required for a consumer education plan to truly be considered comprehensive.

D. Legal Authority

83. Today we adopt rules to educate and empower consumers to take necessary steps to ensure that their “home phone” is capable of making 911 calls during a power outage. These rules are well-grounded in the “broad public safety and 911 authority Congress has granted the FCC.” Congress created the Commission, in part, “for the purpose of promoting safety of life and property through the use of wire and radio communications.” Congress specifically directed the Commission to “designate 911 as the universal emergency telephone number within the United States for reporting an emergency to appropriate authorities and requesting assistance,” in legislation the purpose of which was to “encourage and facilitate the prompt deployment through the United States of a seamless, ubiquitous, and reliable end-to-end infrastructure for communications . . . to meet the Nation’s public safety and other communications needs.” The DC Circuit has also specifically upheld the Commission’s extension to interconnected VoIP providers of the obligator “always required of providers of traditional telephone service [to] transmit 911 calls to a local emergency authority.” In 2008, Congress expressly confirmed that authority to adopt rules that “promote and enhance public safety by facilitating the rapid deployment of IP-enabled 911 and E-911 services.” Congress has also charged the Commission with promulgating “regulations, technical standards, protocols, and procedures as are necessary to achieve reliable, interoperable communication that ensures access by individuals with disabilities to an Internet protocol-enabled emergency network, where achievable and technically feasible.”

84. In this Report and Order, we exercise this broad and longstanding authority over 911 to impose requirements on residential facilities-based voice service providers in their provision of 911 service. Our adoption of rules to enable the continued provision of 911 service during power outages—a logical component of the larger duty to provide 911 service in general—lies clearly within this authority. The Commission’s “broad authority” over 911 is grounded in multiple statutory provisions, as discussed above, that work together to promote universal access to 911. The rules we adopt today contribute to the implementation of this statutory scheme by facilitating the provision of 911 service under specific circumstances: when a customer is relying on a residential voice service that is not line-powered to place a 911 call during a power outage. These rules will ensure that customers who may face such circumstances are aware of the limitations of their service and empowered with options for maintaining 911 access in the event of power loss, closing a potential gap in the provision of 911 service. This Report and Order further advances the Commission’s statutory obligation to promote the national defense and the 911 authority Congress has granted the Commission more effectively implement Congress’s statutory goals of ubiquitous and reliable 911 service for all Americans.

85. Many commenters agree that our adoption of requirements to promote continuity of access to 911 during power outages is an appropriate—and necessary—exercise of our statutory public safety authority. Communications Workers of America states that “[t]he Commission has the statutory obligation to promote public safety through our nation’s communications networks” and affirms our view that “protecting public safety is one of the core principles that must guide [the Commission’s] policies during the technology transition.” The Alarm Industry Communications Committee (AICC) also contends that “[b]ackup power requirements should be adopted to protect consumers and to meet the Commission’s mandate to promote the nation’s defense and the safety of life and property” under Title I. Similarly, the FA PUC “believes that
the [FCC] has the statutory authority to address this issue and require that providers have sufficient backup power to maintain 911/E911 connectivity during commercial power outages so long as the federal rules do not preempt more stringent state rules." AARP comments that "[w]ith regard to the NPRM’s questions regarding whether the Commission has sufficient authority, the answer is an unequivocal yes."

86. Commenters also cite the importance of safeguarding 911 service in particular as a basis for our adoption of rules proposed in the NPRM. The Electronic Security Association notes that "[n]ot only is standby power for communications important for life safety systems, but it is also critical in allowing the consumer to dial 911 during [power] outages." AARP similarly observes that "[t]he issue of CPE backup power also overlaps the 911 reliability issue" and suggests that backup power requirements would fill an existing gap because the Commission’s 911 reliability rules “do not address the reliability of access network components that are associated with the origination of 911 calls.”

87. We disagree with Corning’s suggestion that the rules we adopt today contravene the holding of American Library. That court’s statement that the Commission’s “general jurisdictional grant does not encompass the regulation of consumer electronics products . . . when those devices are not engaged in the process of radio or wire transmission” is inapposite: the rules we adopt govern the provision of 911 service—which is either “radio or wire transmission”—during power outages. These rules grant providers maximum flexibility to define the technical parameters of backup power solutions they offer to achieve that goal. In the absence of line powering, these solutions may incorporate any number of proprietary and competitively sourced inputs, including D-Cell, lead-acid or lithium-ion batteries, UPS, solar panels, power over Ethernet or other technologies, including combinations thereof, provided that the solution on “offer” can support the required continuity of 911 service during a power failure. This service-oriented requirement is thus far different from the broadcast flag” rule struck down in American Library. The court held that the latter rule impermissibly “impose[d] regulations on devices that receive communications after those communications have occurred” rather than on “communications themselves.” The requirements we adopt are obligations with respect to radio and wire communications. Indeed, the purpose of these requirements is to promote access to and awareness of solutions that enable 911 calls to be originated during a power outage. The requirements therefore cannot be said to apply “after . . . communications have occurred.” The fact that devices or equipment operating on backup power may remain in standby mode when not in use, or that our performance rule is defined in terms of “standby time,” does not change this analysis. Defining the rule in terms of “standby time” is simply a means of specifying the period of time in which the rule requires 911 service be provided—e.g., during the first 8 hours of an outage. Backup power solutions offered under our rules are not required to meet any performance standards that apply while a device is in standby mode, except that the solution must make 911 calling “available” throughout the standby period.

88. For similar reasons, we find unavailing AT&T’s comment that “[b]ecause the Commission has deregulated CPE, it has disclaimed any authority to impose CPE backup power requirements.” The rules we adopt today do not apply to CPE or regulate CPE. Rather, those rules govern the obligations of service providers to provide access to 911 service during a commercial power outage in the absence of line powering. While solutions offered under our flexible performance rule may encompass—solely at such providers’ option—the backup of some devices or equipment that might be classified as deregulated CPE, that does not mean that our rules cannot encompass such equipment when powering such equipment (which is located on a customer’s premises) is part of the solution chosen by the service provider. As discussed above, there is no general requirement to provide backup power for all equipment that might be located at the customer’s premises. Rather, the requirement is that, in lieu of line powering provided as a part of traditional POTS service, a covered service provider must offer a backup power solution that provides the customer with 911 access during a commercial power outage.

89. First Amendment. The disclosure obligations we adopt today are permissible under the First Amendment of the U.S. Constitution. No commenter asserts otherwise. In general, government regulation of commercial speech will be found compatible with the First Amendment if it meets the criteria laid out in Central Hudson: (1) There is a substantial government interest; (2) the regulation directly advances the substantial government interest; and (3) the proposed regulation is not more extensive than necessary to serve that interest. As we have noted, the government has a substantial interest, enshrined in Section 1 of the Communications Act, in protecting the safety of the public through the use of wire and radio communications. The Commission has also long observed that “the government has a substantial interest in ensuring that consumers are able to make intelligent and well-informed commercial decisions in an increasingly competitive marketplace.” The disclosures here directly advance that government interest by warning consumers of the potential loss of access to 911 during commercial power failures and informing consumers of backup power options to maintain continuity of such communications. Like the “anti-cramming” rules the Commission adopted in 2012, we conclude that the disclosure requirements adopted here withstand Constitutional scrutiny, in that they advance the substantial government interests of protecting public safety and ensuring that consumers are able to make informed choices about uninterrupted access to 911 through networks that lack line power without requiring any more extensive disclosure than necessary to serve those interests.

90. Moreover, under the standard set forth in Zauderer, compelled disclosure of “purely factual and uncontroversial” information is permissible if “reasonably related to the State’s interest in preventing deception of consumers.” Courts have also recognized that other government interests beyond preventing consumer deception—here, the public safety interest in uninterrupted access to 911—may be invoked to sustain a disclosure mandate under Zauderer. The information about backup power disclosed to subscribers under our rules consists of factual information regarding the limitations of networks not equipped with line powering, and it is not disputed that this limitation exists or affects the provision of 911 service during power outages. This information plays an important role in preventing consumer confusion by setting clear and consistent expectations about subscribers’ ability to reach 911 in an emergency. It also allows consumers to make informed decisions about the amount and type of backup power they purchase, further reducing consumer confusion and preserving public trust in the 911 system as a means of reaching emergency assistance.

E. Sunset Date

91. The rules we adopt today ensure that consumers are adequately informed
about the role of backup power in the technology transitions and that they have the ability to purchase backup power for their service. Clearly delineating the respective roles of the provider and the consumer during this period of transition minimizes the potential for confusion or for unforeseen lapses in 911 service availability during power outages, and creates baseline expectations. Over time, we expect that both the marketplace and consumer expectations will evolve along with advances in technology so that adequate backup power solutions and availability will become commonplace. In light of this prediction, we will sunset the requirements adopted in this Report and Order on September 1, 2025. We anticipate that this ten-year period will allow sufficient time for a “cultural and educational shift” in consumer expectations, along with marketplace and technological development. Consumers will then be empowered to assume primary responsibility over their backup power, similar to the responsibility consumers now bear for mobile devices they may rely on for 911 access during an emergency. If, however, we determine after ten years that the marketplace and expectations have not evolved in the predicted manner we may take appropriate action designed to extend and/or modify the requirements contained herein.

IV. Procedural Matters

A. Final Regulatory Flexibility Act Analysis

92. Pursuant to the Regulatory Flexibility Act of 1980, as amended (RFA), an Initial Regulatory Flexibility Analysis (IRFA) was included in the NPRM in PS Docket No. 14–174. The Commission sought written comment on the proposals in this docket, including comment on the IRFA. This Final Regulatory Flexibility Analysis conforms to the RFA.

B. Paperwork Reduction Act Analysis

93. This document contains new information collection requirements subject to the Paperwork Reduction Act of 1995 (PRA), Public Law 104–13. It will be submitted to the Office of Management and Budget (OMB) for review under Section 3507(d) of the PRA. OMB, the general public, and other Federal agencies are invited to comment on the new or modified information collection requirements adopted in this Report and Order.

94. In addition, we note that pursuant to the Small Business Paperwork Relief Act of 2002, Public Law 107–198, see 44 U.S.C. 3506(c)(4), we previously sought comment on how the Commission might further reduce the information collection burden for small business concerns with fewer than 25 employees, in the FRFA in Appendix B of the full Report and Order, paragraphs 19–23. In this document, we have assessed the effects of the new rules adopted herein on small business concerns and find that the rules adopted here minimize the information collection burden on such entities.

C. Congressional Review Act

95. The Commission will send a copy of this Report and Order to Congress and the Government Accountability Office pursuant to the Congressional Review Act, see 5 U.S.C. 801(a)(1)(A).

D. Implementation

96. In this Report and Order, we require that providers of non-line-powered, facilities-based, fixed, voice residential service, including fixed wireless service intended as POTS replacement, offer new subscribers at the point of sale, at the subscriber’s option and expense, a backup power solution that provides 911 access for 8 hours during a commercial power loss. Except as noted below, this provision of our rules will become effective 120 days after publication of this Report and Order in the Federal Register. Within three years of the foregoing effective date of the 8-hour obligation, providers must also offer a 24-hour backup power solution. We seek to ensure that the measures we adopt are timely implemented so that consumers can begin to realize the benefits as soon as feasible, while allowing a reasonable time for providers to prepare. Except as noted below, the disclosure provisions of the rules will become effective 120 days after the Commission notifies the public that approval has been received from the Office of Management and Budget.

97. We delay the effective date of two of the rules we adopt herein for providers that have fewer than 100,000 domestic retail subscriber lines for an additional 180 days to afford ample time to modify their current practices as necessary to come into compliance with our rules. The obligation of these providers to offer 8 hours of backup power will become effective 300 days after publication of this Report and Order in the Federal Register. The disclosure obligations for these providers will become effective 300 days after the Commission notifies the public that approval has been received from the Office of Management and Budget. The obligation of such providers to offer 24 hours of backup power will become effective on the same extended three-year schedule as for all other providers.

98. Such an accommodation addresses the concerns of some commenters that adopting mandatory backup power obligations for all customers will be particularly burdensome for providers with a small number of lines, and is in line with Commission precedent. While we do not think that the more limited backup power obligations that we adopt herein will be overly burdensome for any provider, we agree with ACA’s suggestion that providers with a small number of lines are more resource-constrained and would benefit from additional time to obtain any necessary equipment and prepare materials and processes for disclosure, and prepare materials and processes for disclosure. We note that ACA asserts that smaller operators should be defined as those with fewer than 100,000 voice service customers, and cites the Rural Call Completion Report and Order in support of its position. However, we observe that the Rural Call Completion Report and Order did not define smaller providers in terms of the number of customers, but subscriber lines. We find that providing an accommodation to providers on the basis of subscriber lines, rather than subscribers, is reasonably designed to minimize burdens on smaller providers without compromising the effectiveness of the rules. The number of lines better reflects a provider’s size and share of traffic than does the number of subscribers. We find that limited, additional time to comply with these aspects of our rules strikes the right balance between the particular circumstances and resource constraints of providers that serve fewer customers and ensuring that consumers have backup power options available in a timely manner.

99. For this purpose, we rely on the standard adopted in the 2013 Rural Call Completion proceeding. In the Rural Call Completion Report and Order, the Commission applied the requirements to providers of long-distance voice service who make the initial long-distance call path choice for more than 100,000 domestic retail subscriber lines. Accordingly, in this proceeding, in an effort to ensure a reasonable burden of compliance, we give providers with fewer than 100,000 domestic retail subscriber lines an additional 180 days to comply with the obligations adopted in this Report and Order.

V. Ordering Clauses

100. Accordingly, it is ordered, pursuant to sections 1, 4(f), and
Part 12—Resiliency, Redundancy and Reliability of Communications

1. The authority citation for part 12 is revised to read as follows:

Authority: 47 U.S.C. 151, 154(i), 154(j), 154(o), 155(c), 218, 219, 251(e)(3), 301, 303(g), 303(i), 303(f), 322, 403, 621(b)(3), 621(d); 47 U.S.C. 615a–1; and 47 U.S.C. 615c, unless otherwise noted.

2. Section 12.5 is added to read as follows:

§ 12.5 Backup power obligations.

(a) Covered service. For purposes of this section, a Covered Service is any facilities-based fixed voice service offered as a residential service, including fixed applications of wireless service

(b) Obligations of providers of a Covered Service to offer backup power.

Providers of a Covered Service shall, at the point of sale for a Covered Service, offer subscribers the option to purchase backup power for the Covered Service as follows:

(1) Eight hours. Providers shall offer for sale at least one option with a minimum of eight hours of standby backup power.

(2) Twenty-four hours. By February 13, 2019, providers of a Covered Service shall offer for sale also at least one option that provides a minimum of twenty-four hours of standby backup power.

(3) At the provider’s discretion, the options in paragraphs (b)(1) and (2) of this section may be either:

(i) A complete solution including battery or other power source; or

(ii) Installation by the provider of a component that accepts or enables the use of a battery or other backup power source that the subscriber obtains separately. If the provider does not offer a complete solution, the provider shall install a compatible battery or other power source if the subscriber makes it available at the time of installation and so requests. After service has been initiated, the provider may, but is not required to, offer to sell any such options directly to subscribers.

(c) Backup power required. The backup power offered for purchase under paragraph (b) of this section must include power for all provider-furnished equipment and devices installed and operated on the customer premises that must remain powered in order for the service to provide 911 access.

(d) Subscriber disclosure. (1) The provider of a Covered Service shall disclose to each new subscriber at the point of sale and to all subscribers to a Covered Service annually thereafter:

(i) Capability of the service to accept backup power, and if so, the availability of at least one backup power solution available directly from the provider, or after the initiation of service, available from either the provider or a third party. After the obligation to offer for purchase a solution for twenty-four hours of standby backup power becomes effective, providers must disclose this information also for the twenty-four-hour solution;

(ii) Service limitations with and without backup power;

(iii) Purchase and replacement information, including cost;

(iv) Expected backup power duration;

(v) Proper usage and storage conditions, including the impact on

duration of failing to adhere to proper usage and storage;

(vi) Subscriber backup power self-testing and -monitoring instructions; and

(vii) Backup power warranty details, if any.

(2) Disclosure reasonably calculated to reach each subscriber. A provider of a Covered Service shall make disclosures required by this rule in a manner reasonably calculated to reach individual subscribers, with due consideration for subscriber preferences. Information posted on a provider’s public Web site and/or within a subscriber portal accessed by logging through the provider’s Web site are not sufficient to comply with these requirements.

(3) The disclosures required under this paragraph are in addition to, but may be combined with, any disclosures required under § 9.5(e) of this chapter.

(e) Obligation with respect to existing subscribers. Providers are not obligated to offer for sale backup power options to or retrofit equipment for those who are subscribers as of the effective date listed in paragraph (f) of this section for the obligations in paragraph (b)(1) of this section, but shall provide such subscribers with the annual disclosures required by paragraph (d) of this section.

(f) Effective dates of obligations. (1) Except as noted in paragraphs (b)(2) and (f)(2) of this section, the obligations under paragraph (b) of this section are effective February 16, 2016, and the obligations under paragraph (d) of this section are effective 120 days after the Commission announces approval from the Office of Management and Budget.

(2) For a provider of a Covered Service that (together with any entities under common control with such provider) has fewer than 100,000 domestic retail subscriber lines, the obligations in paragraph (b)(1) of this section are effective August 11, 2016, the obligations in paragraph (b)(2) of this section are effective as prescribed therein, and the obligations under paragraph (d) of this section are effective 300 days after the Commission announces approval from the Office of Management and Budget.

(g) Sunset date. The requirements of this section shall no longer be in effect as of September 1, 2025.