



*Your Next Generation UPS*



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VP Sales

**FCC has ruled  
on 8-hour Battery Back-Up...  
Are you Ready?**



**Before the  
Federal Communications Commission  
Washington, D.C. 20554**

In the Matter of )  
 )  
Ensuring Continuity of 911 Communications ) PS Docket No. 14-174  
 )

**REPORT AND ORDER**

**Adopted: August 6, 2015**

**Released: August 7, 2015**

**I. INTRODUCTION AND SUMMARY**

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.

Unless otherwise noted, all citations to comments or *ex parte* filings in this *Report and Order* refer to filings in PS Docket No. 14-174.



# INTRODUCTION AND SUMMARY

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. The Commission's own consumer complaints portal reveals frustration over the failure of service providers to adequately inform subscribers about how to self-provision backup power in order to access 911 services in a power outage. This period of transition has the potential to create a widespread public safety issue if unaddressed.




# INTRODUCTION AND SUMMARY

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. 47 U.S.C. § 151.

# INTRODUCTION AND SUMMARY

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.



# **FCC Ruling 2015**

## **Responsibilities of Providers of Covered Services**

**“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 its installation of service.”**



# **FCC Ruling 2015**

## **Responsibilities of Providers of Covered Services**

**“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.”**





# **INTRODUCTION AND SUMMARY**

## **What the order says – In English**

- **UPS is optional**
- **Cost of the UPS can be passed to the customer**
- **8 hours is the minimum – (Not 7 hours)**
- **24 hour option must be made available in 3 years**
- **You must educate the customer until 2025**



# ILEC CONSIDERATIONS

- A low cost wall wart can be used instead of a UPS
- Pros
  - Low cost and no battery required
  - Compatible with a UPS
- Cons
  - No visibility to customer equipment
  - No battery backup means service outage



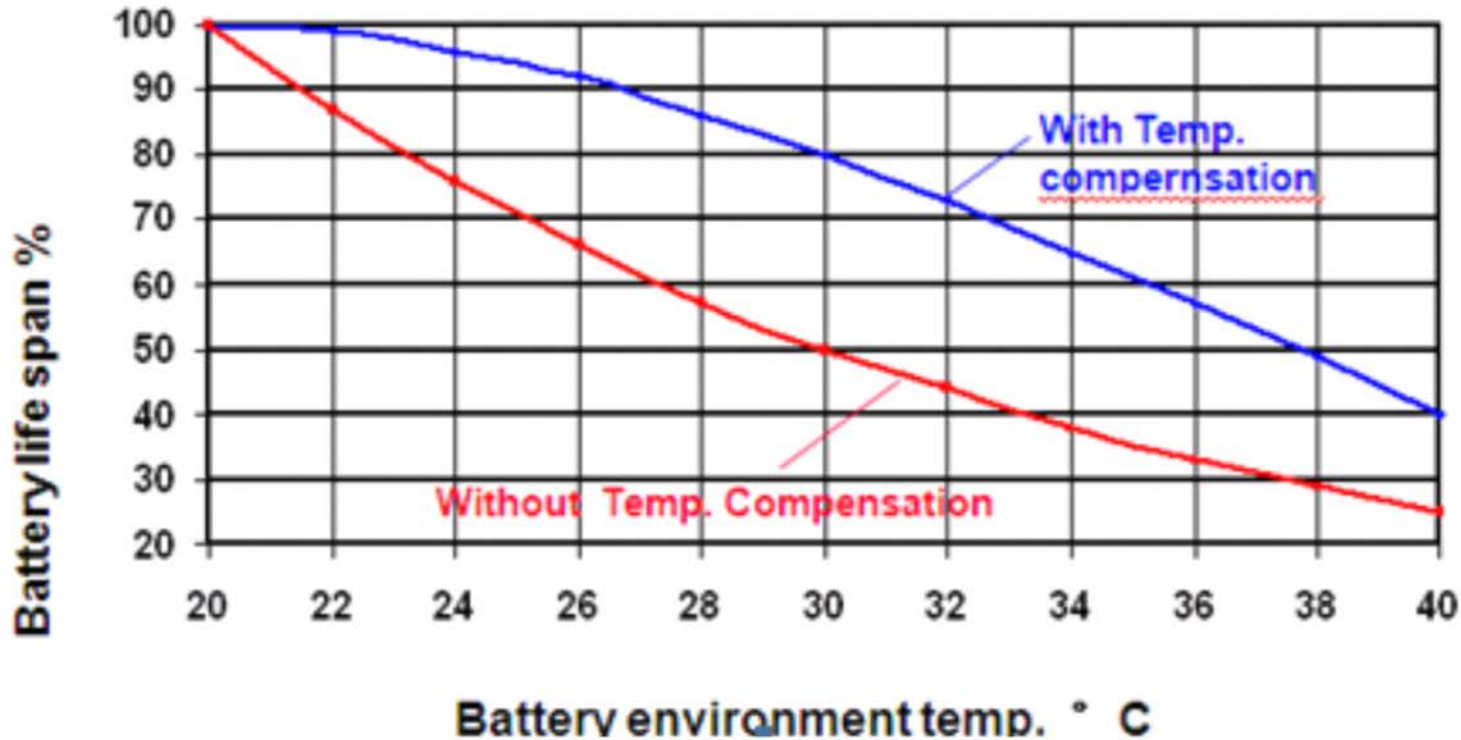
# ILEC CONSIDERATIONS

- A low cost wall wart can be used instead of a UPS



# Temperature Compensated Charging vs Non Temp Compensated Charging

## Battery lifespan comparison between with temperature compensation and without it



# Dear NECA Member Company,

- FTTh investments (including standby power equipment) is placed in the transmissions category. This investment/expense category is eligible for cost recovery from the NECA Traffic Sensitive Pool and the Federal Universal Service Fund.
- A typical level of expense recovery for transmission is in the 80 to 90% range. Some companies might be allowed to go over the 90 % level depending on the level of costs and the relationship to the recovery guidelines set forth in the Federal USF Rules.
- The other method that a company can utilize is a capitalization method (investment is depreciated/expensed typically over a five to eight year period). Under this approach a company typically recovers 80 to 90 percent of the depreciation expense and earns 11.25% on the net investment (Investment less accumulated depreciation) from the NECA and USF processes.




# Cost Recovery Examples

- 1) Expense Option: As an example if a company rolls a truck at say \$150 cost to replace the old technology with a NEO, they recover the cost of the NEO and the labor for installing the NEO, at the 80 to 90% level through the NECA and Federal USF processes. If the total cost including labor and the NEO is \$300 they will get back \$240 to \$270 through the NECA and USF processes.
- 2) Investment Option: A company can retire their old power supplies and then replace them with ESPI's and capitalize the total investment, including labor. From the NECA and Federal USF mechanisms they would then recover 80 to 90 percent of the depreciation expense associated with the investment in the NEO and receive an 11.25% return on the net investment.

# **SUMMARY**

## **What the order says – In English**

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# Questions?