



CASE STUDY: Deka Fahrenheit®  
batteries provide 104% capacity  
at uncontrolled telecom site  
beyond six years of service.

#### THE BACKGROUND

Mobile phones and their networks have become integral devices to our daily lives. While devices are amazing, the networks that power them must be sustained 24/7/365. Lead batteries are integral products in powering these global networks.

#### THE CHALLENGE

One of the top three telecom providers in North America needed to supplement their critical network in the hot and humid environment of southern Florida. The batteries needed to provide outstanding performance while enclosed in an uncontrolled steel OSP structure.



HT170ET

*"After six years in service,  
the average capacity  
was 104% and  
still going strong."*



# Battery capacity after six years in the field

Battery Number	3 Hour Discharge Rate - 46.4A to 1.75vpc % Capacity	8 Hour Discharge Rate - 20.5A to 1.75vpc % Capacity
1	108.3	110.9
2	108.2	108.7
3	94.2	91.3
4	106.2	106.4

*Average capacity at both the 3- and 8-Hour rate was 104%.*

## THE CLEAR SOLUTION

The customer's power solution choice for their world class mobile network was the revolutionary Deka Fahrenheit valve regulated lead-acid (VRLA) HT170ET battery. At the time of installation, these batteries were just being introduced as a game changing solution for uncontrolled high heat environment applications. In addition, these batteries also provided a maintenance-free and sustainable solution for critical telecom requirements.

## THE RESULTS

After six years in service, the Deka Fahrenheit batteries had an average capacity of 104% at the 8-hour rate. This performance under these scorching conditions is well beyond both the design and warranted life. These batteries were exchanged for newer Deka Fahrenheit batteries due to regularly scheduled customer change-outs. These results show the performance of Deka batteries which are built with premium consistency and manufacturing excellence.

## THE CONCLUSION

Exemplary, consistent performance, combined with a truly sustainable solution, makes the Deka Fahrenheit the battery of choice in uncontrolled critical backup telecom solutions. Deka batteries are the proven, safe, and reliable solution to help you reach your performance, sustainability, and cost goals. Call us today to learn how we can help you succeed.



*On-site OSP structure containing four Deka Fahrenheit HT170ET batteries.*



e-mail: [reservepowersales@dekabatteries.com](mailto:reservepowersales@dekabatteries.com)



East Penn Manufacturing Co.

Lyon Station, PA 19536-0147

Phone: 610-682-3263

Fax: 610-682-4781

[www.dekabatteries.com](http://www.dekabatteries.com)

E.P.M. Form No. 2681 02/23

© 2023 by EPM Printed in U.S.A.

All data subject to change without notice. No part of this document may be copied or reproduced, electronically or mechanically, without written permission from the company.