

# Merck – Durham, North Carolina

## Background

Merck is a global healthcare company that delivers innovative health solutions through its prescription medicines, vaccines, biologic therapies, and consumer and animal health products. At the company's Durham, North Carolina facility, engineers develop and manufacture liquid vaccines to improve patient care.

## Challenge

Manufacturers of medicines and vaccines must adhere to strict federal production guidelines to prevent contamination. If an electrical interruption occurs, all product that is in process must be discarded and operations cannot resume until all affected equipment is cleaned and revalidated. Because of these risks, Merck required a reliable critical backup power solution to ensure the facility remains fully operational at all times.

## Solution

Merck chose to deploy **three Active Power CleanSource® UPS systems** to protect the facility's air handlers from voltage sags and other short power disturbances. The flywheel-based UPS systems require less frequent maintenance than battery-based competitors, reducing the risk of production stoppage caused by human error. Additionally, CleanSource UPS was selected due to its smaller footprint and lower total cost of ownership.

## Result

Since installation in December 2013, the equipment protected by Active Power UPS systems has not experienced a power-related interruption.

***"In our highly sensitive environment, we needed a reliable UPS that could handle power disturbances and provide a bridge during an outage. Active Power's product has never failed."***

– Damien Wassell, Utility Engineer

