

Merck & Co. Wilson Campus

Wilson, NC



Building Information

- Multi building campus
- Total 453,000 square feet
- Labs and production rooms(multi-class clean room space)

System Information

- Total 26 AHU serving production lines, lab space and office area
- Central plant with significant steam services

Project Date

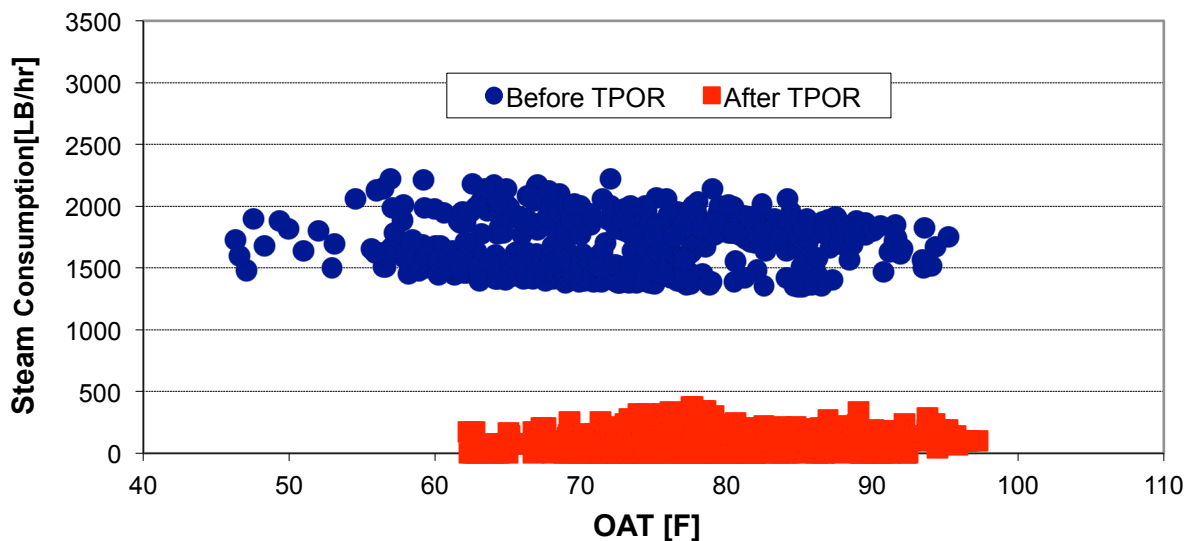
- Finished energy audit in 2006
- Project implementation from April 2007 to July 2008

Retrofit Optimization TPORSM

- Optimized steam flow based on actual building load conditions
- Installed fan airflow stations on supply fans
- Installed pump flow stations
- Optimized fume hood exhaust flow

Results

- Improved thermal comfort and system reliability
- 6,533,061 kWh annual electricity savings
- Reduced entire facility energy consumption by 21%
- Reduced a single 33k sq. ft. building's energy consumption by 82%
- 1.87 year ROI



Lab area steam consumption before and after project implementation