

## Overall Summary and Recommendations

The purpose of the visit was to perform a Test, Adjustment, and Balance at Wendy's #10700. The store was initially found at -0.07" building pressure and was able to be improved to -0.024". This was achieved by bringing in outside air through each Rooftop Unit. Net Building Airflow is currently -1300CFM, an improvement from the initial -2700CFM.

Net Building Airflow can be further improved by replacing, or breaking free, the RTU-5 and EF-2 motor sheaves. Repair/replacement of these sheaves will allow for reduced exhaust airflow from Hood 2 and increased supply and outside airflow from RTU-5. Hood 2 is currently overperforming by approximately 138% and RTU-5 is operating at ~90%.

## Technical Summary

RTU-5 motor sheave was found to be jammed. This RTU would benefit from the motor sheave being replaced and fan speed increased by approximately 10%. This will allow for slightly more outside air to be brought in through this unit, further improving the Net Building Airflow.

All the RTU economizer controllers were found to be unresponsive. NTi technician was able to set the outside airflows manually, however, it is recommended to repair the economizers and reset them to TAB positions. This will allow the economizers to close at night when the building is unoccupied.

KEF-1, serving Hood-1, airflow is below what is expected for a hood of this length. However, there were no performance issues noticed at this airflow. There are no further recommendations regarding this fan currently.

KEF-2, serving Hood-2, airflow can be reduced from 2200CFM to 1600CFM if the motor sheave is replaced. NTi technician was unable to make this change as the pulley is currently seized. Once this change is made the Net Building Airflow will be approximately -650CFM which will be a significant improvement. It is recommended to make this change and then monitor building comfort.

If the store remains uncomfortable following the reduction of airflow on KEF-2, National TAB can continue to investigate the issue and make further recommendations.