

The purpose of this visit to Moore, OK was to address poor smoke capture issues, as well as to balance the rest of the HVAC system within the store.

Findings and Recommendations

1. RTU#2 is not operational due to line voltage mismatch. More details in remarks section of report.
2. Hood baffle filters should be replaced to prevent buildup of grease in grease ductwork and to have air properly flow through them due to damaged baffles.

Technical Summary

The store manager stated that they had not noticed smoke capture issues during day-to-day operations. However, it was noted that there was slight grease accumulation on return grilles in the kitchen. Taking building pressure, it was noted the building had a very negative pressure with an average of -0.0352 ". Upon further inspection of hood filters, all of them were clogged with grease and or the baffle filters were bent. The main griddle hood was initially low on air flow.

The initial smoke test showed smoke would mostly go through gaps in exhaust plenum where they did not cover, and less smoke would go through baffle filters. Main griddle hood had some issue with smoke capture due to its low flow.

Once the griddle hood was changed into design air flow and outside air adjusted for building properly this helped smoke capture go to 100%.