

Summary

Purpose of the visit was to address concerns of negative pressure. Building was initially -3197 CFM and -0.5" wc. The economizers were found closed and after setting these to design the building pressure is now -1788 CFM and the pressure was measured as -0.39" which is still highly negative.

The major cause of negative pressure is due to MUA-1 being low on flow. It appears to be low due to the perforated plenum inside of the hood being clogged on the inside (see pictures on following pages for more info). This needs to be cleaned from the inside on all hoods not just wiped down from the outside

Getting the MUA closer to design will help building pressure, but the building will still likely be negative. To improve further full vertical end panels could be added to Hood 1 which would allow for reducing the hood exhaust rate to around 2000 CFM which should then get building pressure neutral.

See issues on the following pages for more insight