

Crabtree Engineering

278 Amelia Cove
Collierville, Tennessee 38017

MEMO

March 23, 2014

To: **Kevin Gough**

From: **Jeff Crabtree – Maine PE 13262**

Project: **Press Hotel - 119 Exchange - Portland, Maine**

Task: **Sound Criteria for Exterior Mechanical Equipment**

The city zoning ordinance requires the max dB rating for our roof mounted equipment as follows:

- 55 dB max at the property line between the hours of 9pm and 7am.
- 60dB max at the property line between the hours of 7am and 9pm.

We have four major pieces of equipment on the roof.

- Cooling Tower-1
- Cooling Tower-2
- MAU-1
- MAU-2

Based on sound information provided by the equipment manufacturers I have calculated the dB level at the property line. I used an acoustic analyzer program to perform the calculations. The dB level for each piece of equipment is below the maximum allowed level.

A circular professional engineer seal for Jeffrey A. Crabtree, State of Maine, No. 13262. The seal is stamped in blue ink and features a star on each side. A handwritten signature in blue ink is written over the seal, and the date "3.23.2014" is handwritten in blue ink at the bottom of the seal.