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LICENSE #611215 (B, C-4, C7, C10, C20, C36, C38, C46)

Leslie Barnes
Pasadena Unified School District
351 S Hudson Ave
Pasadena, CA 91109

April 14, 2021

RE: Eliot Middle School Fundamental HVAC Mechanical Survey Report

EMCOR Services Mesa Energy Systems, and our team of experts (engineers, technicians, directors, managers, and other building systems professionals) have provided assessment and improvement services in order to verify and improve HVAC systems, which includes ventilation systems, as part of PUSD's preparation for safe reopening of schools.

Results

The overall result was that systems are in acceptable order for reopening next week, under reduced occupancy. For reduced occupancy and this first phase of reopening, is recommended that, as long as temperatures remain comfortable and as long as there are no security concerns, that the windows may be opened to increase or supplement the amount of ventilation air to each space. Mechanically, the majority of the equipment is in good working order.

The detailed results for **Eliot Middle School** are as follows:

Mechanical – **78 units** assessed on **Mar 31, and April 3, 4, 5, 2021.**

- Findings: **56 units** found to need various repairs. These repairs will be discussed and proposed at the district's prompting. These repairs are predominantly minor and can be completed relatively quickly.
- Recommendations: It is recommended that the district continue with preventative maintenance in normal intervals. It is also recommended that the school's automation system be tested under normal operation.
 - Immediate: Most repairs surround chilled and/or hot water valves. Recommend beginning with automation testing and narrow list to valves that have failed. We will propose repairs.
 - Long-term
 - Window unit replacement (**2 units**)

Thank You,
Jason Rivadeneyra, General Foreman
EMCOR Services Mesa Energy Systems Team

