



2 CROMWELL IRVINE, CA 92618 • PHONE (949) 460-0460 • FAX (949) 460-8833
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 9, 2021

RE: HAMILTON ELEMENTARY -- HVAC & VENTILATION ASSESSMENTS

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 next week.

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.

In preparation for the next phase, we have recommendations for repairs that are required to reach higher levels of ventilation required for full occupancy (planned for Fall). PUSD and EMCOR will work to ensure that repairs are made, and outside air requirements reached and verified as spaces are more and more occupied to full capacity.

The detailed results for **Hamilton Elementary** are as follows:

Air Quality: 32 classrooms assessed on **Mar 20-21, 2021**.

- Findings:
 - Number of classrooms/areas that passed: **11**
 - Number of classrooms that passed with modifications: **21**
 - Modifications necessary
 - Utilize windows and doors (for immediate/reduced occupancy)

Mechanical – 55 units assessed on **Mar 20-21, 2021**.

- Findings: **5 units** required short-term repairs
- Recommendations
 - Short-term
 - Belts change, valve replacements (to be completed April 10, 2021)
 - Controls programming corrections
 - Fan/blower re-balance (vibration repairs- to be completed April 10, 2021)
 - Valve actuator replacements (to be completed April 10, 2021)

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

