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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 16,2021

RE: WASHINGTON MIDDLE -- 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 April 21, 2021, 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 **Washington Elementary** are as follows:

Air Quality: **71 classrooms and offices** assessed on **April 8 - 14, 2021.**

- Findings:
 - Number of classrooms/areas that passed: **67**
 - Number of spaces tested that failed to meet min OSA requirement: **4**
 - Locker Room (Rm G-115, G-122): Could not be accessed as unit was not running. Need to return
 - Room B-96: Unit needs a new supply fan motor
 - Room B-109: Districted directed to open operable windows (9)

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

