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Noise

I respectfully request a full environmental review with specific attention to noise. In addition to the standard A weighting, which discounts low frequency noise levels, I request that the noise level be analyzed C-Weighting and Octave and 1/3 Octave Band analysis to effectively represent the rumbling low frequency noise that is a typical data center emits using a recognized standard such as ANSI S1.4 or IEC 61672. This analysis should include the data center at all possible design operating conditions such as evaporative cooling, air conditioning, and when using or testing generators both for the initial request and including the complete build out of the complex.

Per ANSI/ASA S12.60-2010 learning decreases in classrooms when noise levels are above 35 dBA. Low frequencies effects on children have not been completely studied, but noise increases stress in children and adults. In addition to the residential neighborhoods near the proposed data center, the effects at all frequencies should be known for Inyokern Elementary School, and to ensure that noise that causes discomfort to persons residing within 1000 feet of the data center does not exist.

Additionally, the noise and vibration levels during construction including traffic need to be modeled to ensure discomfort to residents in the area, or home damage does not occur.