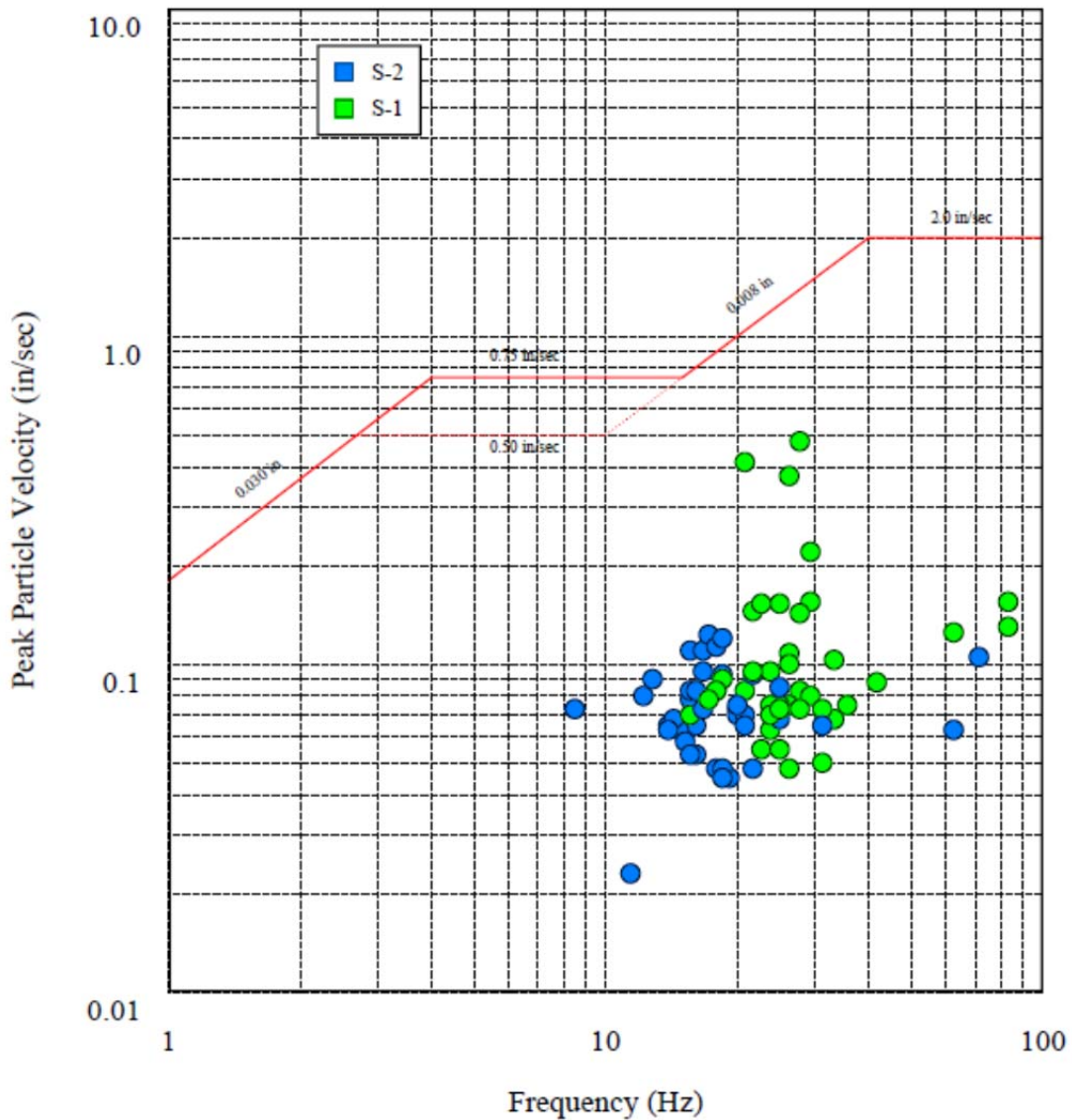


APPENDIX 4.1 – SUMMARY OF BLASTING EVENT MONITORING / SEISMIC READINGS

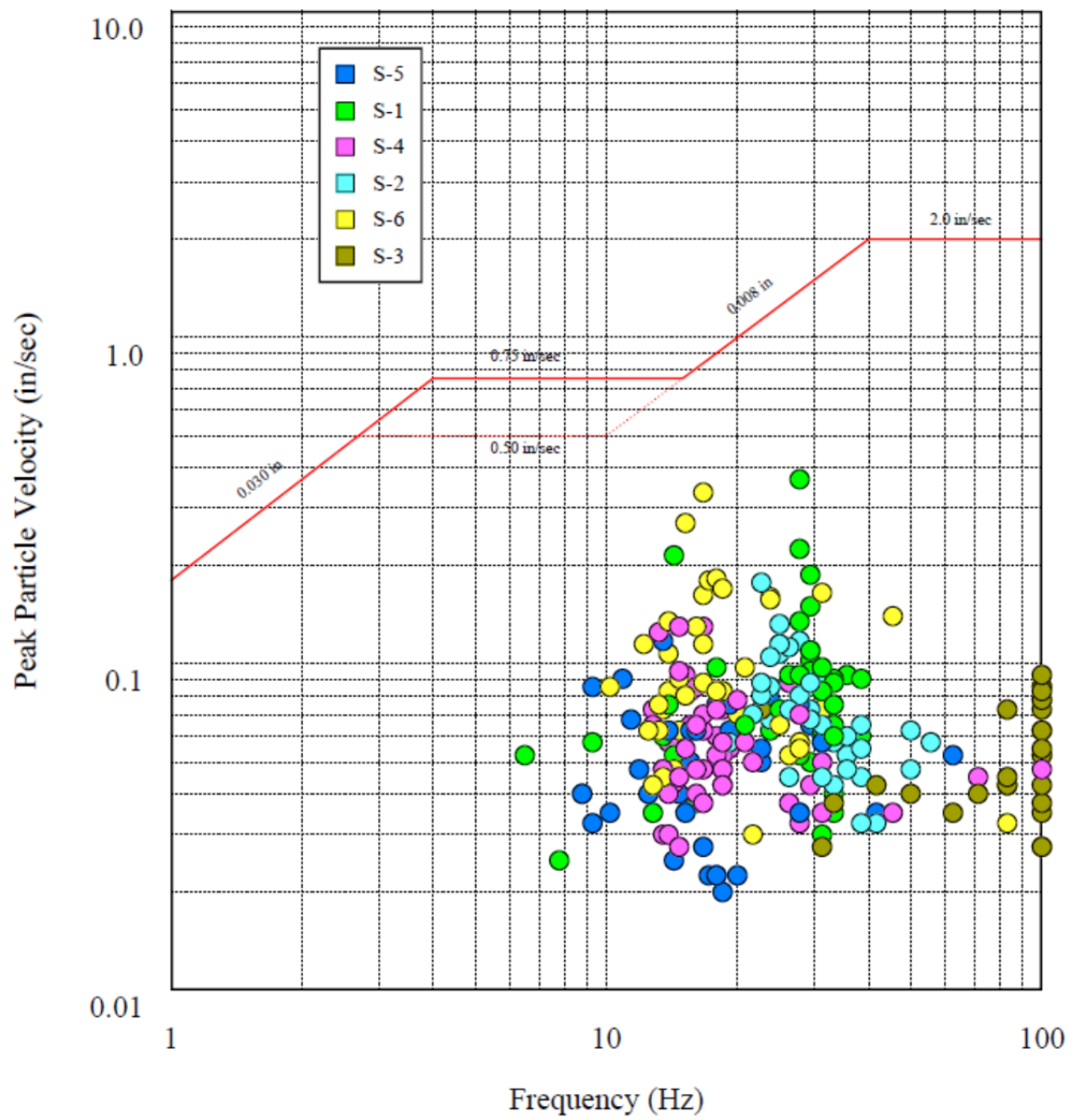
Comparison of measured blast vibrations to U.S. Bureau of Mines Recommendations and 25 Pa. Code §77.562 “Z-Curve” standards:¹

2014

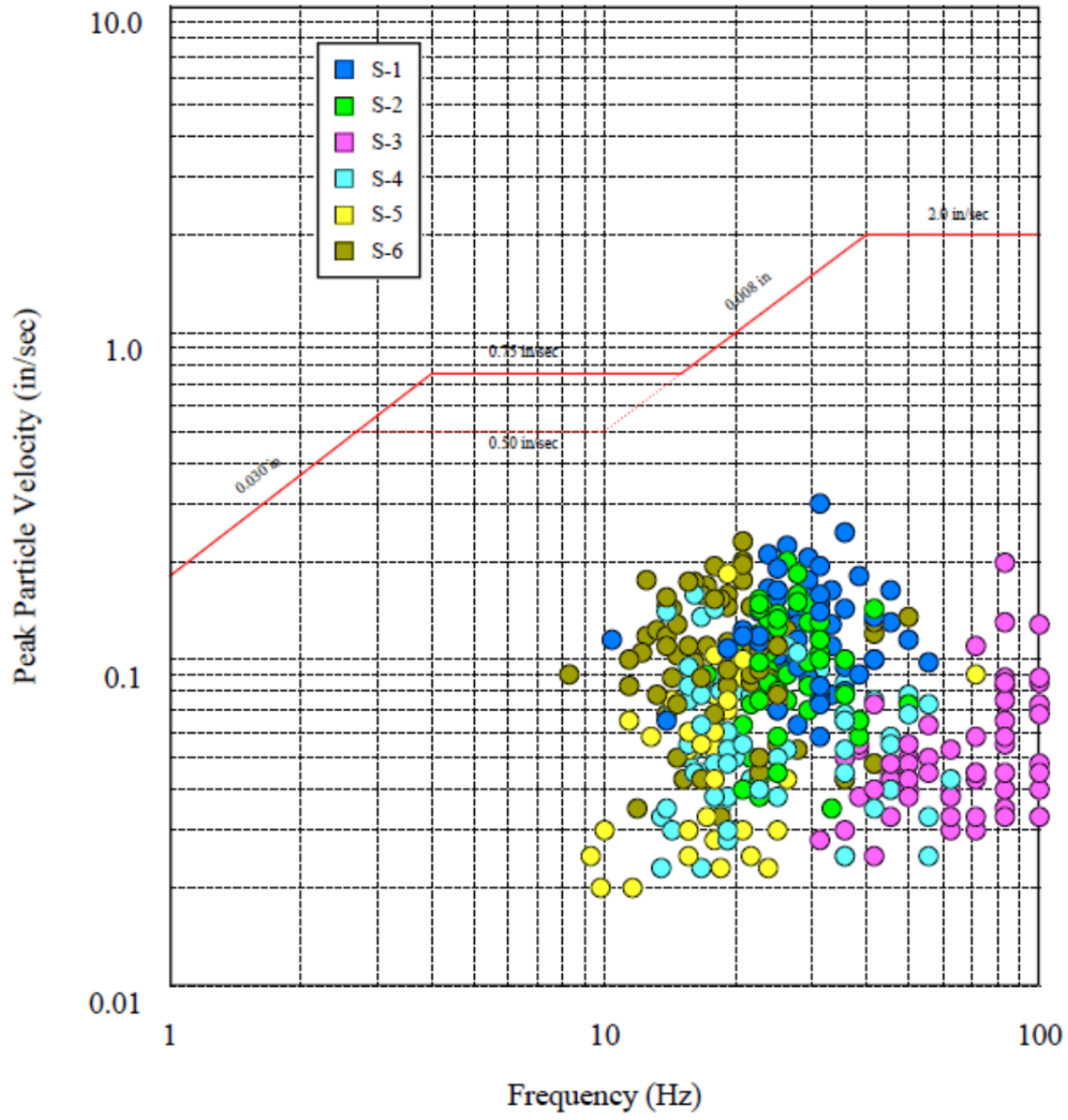


¹ 25 Pa. Code §77.562 standard is value of 0.5 inches/second at 3-10 Hz.

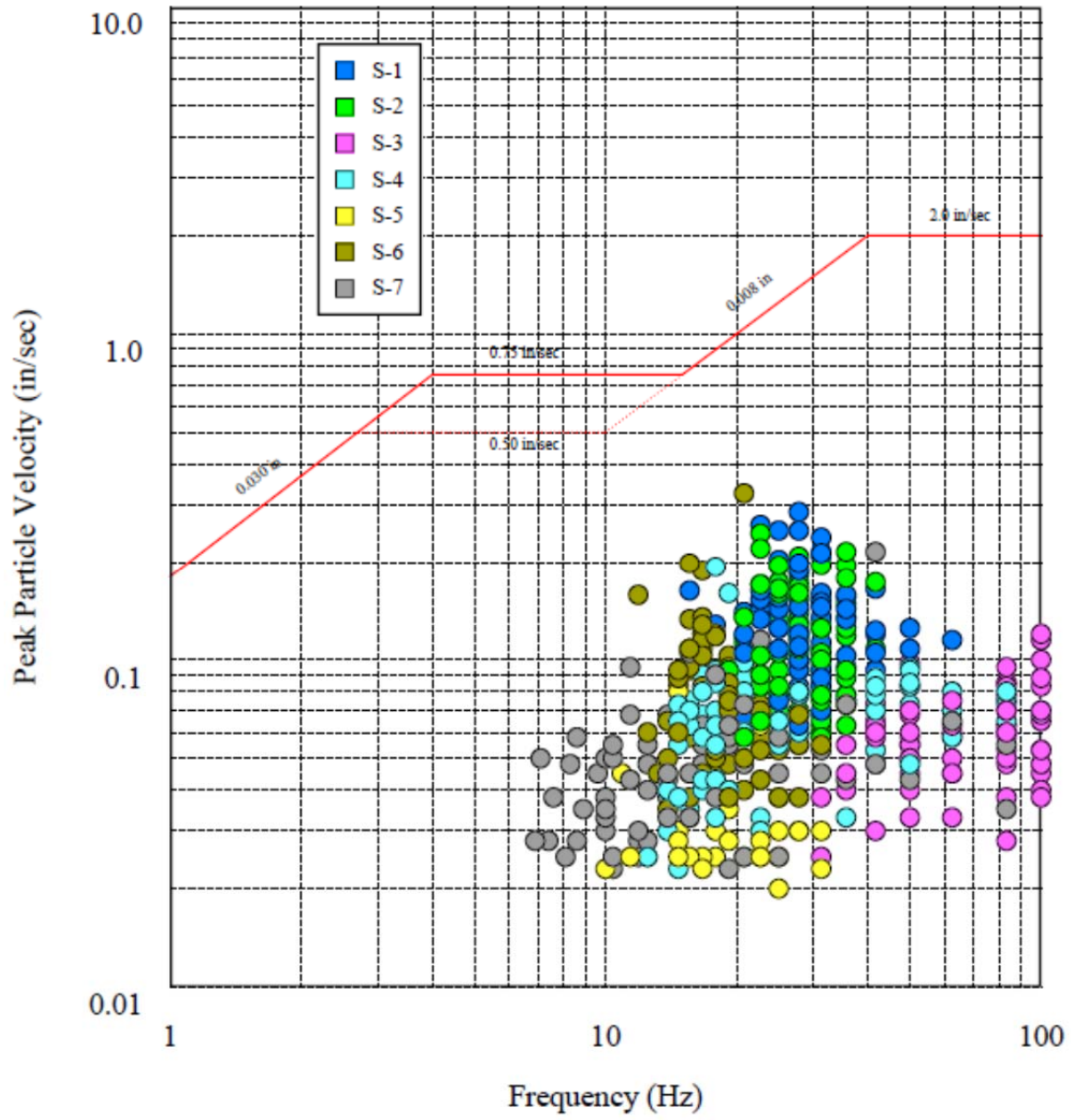
2015



2016



2017



2018 (through August 2018)

