

**TOWN OF BROOKFIELD
ZONING REGULATIONS**

**Technical Standards
Blasting - §242-602K**

K. Blasting *[added 6/18/03]*

(1) **Purpose:**

It is the purpose of this subsection to provide guidelines and standards to be used in any blasting operations conducted within the Town of Brookfield to insure the health and safety of the site itself, its inhabitants and the health and safety of any adjacent properties and their inhabitants.

(2) **Standards:**

- (a) **Effect on Surrounding Properties:** All blasting activity shall be carried out in such a manner as to avoid any detrimental effects upon the surrounding environment and properties.
- (b) **Site Blasting Plan:** Prior to the initiation of any blasting efforts, the applicant shall submit to the Commission for approval, a site blasting plan. Such plan shall include: hole pattern design, hole dimensions and loading techniques, time delays, blast duration, vibration levels, tentative schedule for each blast, the amounts of material to be dislocated in each blast, proposed location of dislocated materials, use of mats and overfly protection devices, dust containment procedures and safety precautions to be employed. The Commission may require that the applicant retain at its expense an independent technical expert, acceptable to the Commission, to review the plan and provide recommendations to the Commission.
- (c) **Blast Limitations:** No blasting shall occur which yields in excess of one thousand (1,000) cubic yards of material per blast and shall meet all the requirements of State law.
- (d) **Vibration Limitations:** Within any blasting activity, ground vibrations shall not be outside of the following range: ½ inch per second peak particle velocity and not less than 10HZ frequency and 2 inches per second peak particle velocity at more than 40HZ frequency per blast measured at the closest property line. (See figure B-1 below entitled “Figure B-1 – Safe levels of blasting vibrations for houses using a combination of velocity and displacement.”)
- (e) **Seismographic Reports:** Upon completion of each blast, the applicant shall provide seismographic reports to the Zoning Enforcement Officer and Town Fire Marshal indicating that these limits have not been exceeded.

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- (f) Notice and Pre-Blast Surveys: The applicant shall provide all abutting property owners forty-eight (48) hours advance notice of any blasting activity on the site. Pre-blast surveys on structures and wells immediately adjacent to the property lines of the site shall be required and copies shall be filed with the Commission within ten (10) days of their preparation.