

RESOLUTION NO. 3849-0912

A RESOLUTION OF THE MAYOR AND COUNCIL OF THE CITY OF PRESCOTT, YAVAPAI COUNTY, ARIZONA, ADOPTING BY REFERENCE THAT CERTAIN DOCUMENT ENTITLED "2008 CITY OF PRESCOTT EXPLOSIVES/BLASTING STANDARD, A SUPPLEMENT TO CHAPTER 33 OF THE 2006 INTERNATIONAL FIRE CODE" AS A PUBLIC RECORD, AND DIRECTING THE CITY CLERK TO RETAIN THREE COPIES THEREOF ON FILE

RECITALS:

WHEREAS, the City of Prescott wishes to adopt by reference that certain document entitled the "2008 City of Prescott Explosives/Blasting Standard, a supplement to Chapter 33 of the 2006 International Fire Code," as a public record.

ENACTMENTS:

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PRESCOTT AS FOLLOWS:

Section 1. THAT certain supplement to the 2006 International Fire Code entitled "2008 City of Prescott Explosives/Blasting Standard, a supplement to Chapter 33 of the 2006 International Fire Code," Exhibit A attached hereto and made a part hereof, is hereby declared to be a public record.

Section 2. THAT the City Clerk is hereby directed to maintain three (3) copies of the above referenced public documents on file at all times for inspection by the public.

PASSED AND ADOPTED by the Mayor and Council of the City of Prescott this 23rd day of September, 2008.



JACK D. WILSON, Mayor

ATTEST:

APPROVED AS TO FORM:



ELIZABETH A. BURKE, City Clerk



GARY D. KIDD, City Attorney

EXHIBIT 'A'**2008 CITY OF PRESCOTT EXPLOSIVES/BLASTING STANDARD
A SUPPLEMENT TO CHAPTER 33 OF THE 2006 INTERNATIONAL FIRE CODE****3309
PRESCOTT - GENERAL**

3309.1 Scope. This standard shall apply to the use, handling, manufacturing, and storage of explosive materials and to all blasting within the City limits of the City of Prescott (COP).

3309.2 Purpose. This standard is intended to provide reasonable safety in the use, handling, manufacturing, and storage of explosive materials. This "Explosives/Blasting Standard" shall serve as a supplement to the 2006 Edition of the International Fire Code, Chapter 33 and adopted amendments and shall direct fire department activities in managing all aspects of fire code compliance relating to explosives in the City of Prescott.

3309.3 Marked items

Any remaining explosive items or devices marked EXPLOSIVES or detonators (spent or non-spent) shall be removed from the blast site at the end of each day and properly stored or disposed of in the manner recommended by the manufacturer.

3309.4 Abandonment

Explosive materials or loaded holes shall not be left unattended at any time other than the proper storage in approved magazines.

3309.5 Misfires

The Blaster in Charge shall provide proper safeguards for excluding all unauthorized persons from the blast area whenever a misfire is found.

Misfires shall be handled under the direction of the Blaster in Charge of the blasting operation.

No other work shall be done except that necessary to remove the hazard of the misfire and only those individuals necessary to handle the misfire, under the direction of the Blaster in Charge, shall remain in the blast area.

Explosives shall not be extracted from a hole where there has been a misfire unless it is impossible or hazardous to detonate any unexploded materials by insertion of an

additional primer. If there are any misfires, everyone shall remain away from the blast area for at least:

1. one hour when using fuse detonators and safety fuse.
2. thirty minutes when using electric detonators.
3. 15 minutes when using a non-electric initiation system other than safety fuse.
4. 30 minutes when using electronic detonators unless the manufacturer recommends additional time before returning to the blast area.

If explosives are suspected of burning in a blast hole, all persons in the endangered area shall move to a safe location and no one shall return to the hole for at least one hour after evidence of combustion ceases.

Explosive materials recovered from misfires shall not be reused and shall be disposed of in the manner recommended by the manufacturer.

3309.6 Transfer of materials between vehicles, breakdown or collision

Explosive materials shall not be transferred from one vehicle to another, within the city limits, without informing the Fire Marshal or his/her designee first. In the event of a breakdown or collision of vehicles transporting explosive materials, the Fire Chief and Fire Marshal shall be immediately notified.

3309.7 Parking and Garaging

A vehicle transporting explosive materials shall not be parked before reaching its destination on any street, adjacent to or in the proximity of any bridge, tunnel, dwelling, building or place where people work, congregate, or assemble. Parking and garaging requirements for vehicles transporting explosives may be modified by the Fire Marshal or his/her designee.

3309.8 Blast Scheduling

All blasting shall be conducted between the hours of 9:00am and 4:00pm, Monday through Friday.

Exception: The Fire Marshal or his/her designee may approve alternative time periods for blasting, at their sole discretion, as deemed appropriate.

3309.9 Traffic and Access Control Plan A traffic and access control plan shall include warning signage, flagging, temporary road closures, and detour routes for blasting operations, or as otherwise required by Federal, State, or local Fire authorities / regulations or the Marshal or his/her designee.

Exception: Permit areas that are secured from entry by the general public or public roads that are beyond the blast area.

When using electric detonators, signs reading "BLASTING ZONE AHEAD" and "TURN OFF 2-WAY RADIOS" must be displayed on all roads within 1,000 feet of blasting operations.

During the loading and detonation of explosive materials, signs shall be conspicuously placed reading "Blasting Area" along the perimeter of any blasting area.

Access within the blasting area shall be controlled to prevent the presence of unauthorized persons during blasting and until an authorized representative of the Blaster in Charge has reasonably determined that no unusual hazards, such as misfired charges exist and access to, and travel within, the blasting area can be safely resumed.

3310 PRESCOTT - PROCEDURE

3310.1 General Blasting Requirements

3310.1.1 Explosives Permit to Operate a Blasting Business. Blasting contractors are required to have an "Explosives Permit to Operate a Blasting Business" in the COP. Blasting contractors are required to have at least one person associated with the business that holds a Certificate of Fitness Card. To obtain this permit, the applicant shall make application and submit or have on file the following:

- A valid Arizona Contractor's License document
- A valid Certificate of Insurance document
- A valid Certificate of Fitness Card or Card number in its employ
- A valid Federal Permit or Federal Explosives License
- Submit the required permit fee (A deposit of \$100.00 may be made to establish a permit pre-payment account).

3310.1.2 Explosives Magazine Permit. The use of an explosives magazine to store explosives within the COP requires an "Explosives Magazine Permit." To obtain an "Explosives Magazine Permit" the applicant, under the authority of the Licensed Contractor, shall make application at least three days prior to the temporary storage of explosive materials within the City limits and submit or have on file the following:

- A valid Arizona Contractor's License document
- A valid Certificate of Insurance document
- A valid Certificate of Fitness Card or Card number in its employ
- Payment of the required permit fee(s)

- A valid Federal Permit or Federal Explosives License.
- 2 copies of a scaled site plan of the proposed storage location for the magazine, showing distances to the closest inhabited dwellings, structures, utilities, and public right of ways.

An "Explosives Magazine Permit" will only be issued after plans have been submitted, reviewed, approved and the Fire Marshal or his/her designee has conducted an inspection of the site. A permit shall not be valid for more than 90 days without approval by the Fire Marshal or his/her designee.

3310.1.3 Site Blasting Permit Requirements.

3310.1.3.1 Qualifications. Blasting permits shall be issued to only those persons or entities who are licensed or permitted, as required by the Bureau of Alcohol, Tobacco, Firearms and Explosives in accordance with CFR PART 55, who are the holder of or are operating under a valid and current Arizona State Contractor's License, and who are a Certificate of Fitness cardholder as approved by the Prescott Fire Marshal or his/her designee.

Explosives handlers are required to obtain a "Site Blasting Permit" to conduct blasting in the City of Prescott. Site Blasting Permits are valid for 3 days or 30 days and are for a particular location. Site Blasting Permits may be obtained by phone or in person at the Fire Prevention Office. To obtain a "Site Blasting Permit" the applicant shall make application and submit or have on file the following:

1. A copy of a valid Certificate of Fitness card issued by the Fire Marshal or his/her designee to the blaster in charge.
2. A copy of the current contractor's license, issued by the State of Arizona Registrar of Contractors, for the type of operations proposed to be conducted such as an A-General Engineering, A-3, Blasting, AE (As restricted by Registrar) or C-15 license.
3. Certificate of Insurance. A valid copy of the contractor's insurance policy in the amount of no less than \$1,000,000, in favor of the city, subject to approval by the COP Attorney as to form and limits of coverage, shall be on record at the fire department.
4. Completed Permit Application.
5. A copy of the applicant's current Federal Permit or Federal Explosives License.
6. A blasting plan, for each job site, shall be submitted when required by the Fire Marshal or his/her designee. The blasting plan shall include, but is not limited to, burden and spacing, hole diameter, hole depth, blast design layout, weight of

- explosives per hole, amount of stemming, powder factor, sequence of firing, maximum charge weight per time delay, type of covering if used (matting, dirt, etc.), etc.
7. A Hold Harmless and Indemnification Agreement in favor of the City of Prescott as approved by the City Attorney. (See page 4)
 8. Pre-blast survey reports as required by the Fire Marshal or his/her designee. A waiver denying a pre-blast survey, signed by the building owner, may be required by the Fire Marshal or his/her designee.
 9. Applicants shall submit a scaled blast site map. The map shall show the distance from the blast site to the nearest structure to include the location, and identity of all structures, buildings, and underground utilities that may be adversely affected by the blast, or as otherwise required by the Fire Marshal or his/her designee. The distance at which the blast may adversely affect the existing condition of structures, buildings, underground utilities shall be determined by the Blaster in Charge.
 10. The applicant or contractor may be required to furnish, at his own expense, such additional information, as determined by the Fire Marshal or his/her designee, to evaluate the permit application. This may include, but is not limited to, the submission of a report prepared by a licensed professional engineer registered in the State of Arizona, Nevada, California, Utah, New Mexico, Colorado, or as otherwise required by the Fire Marshal or his/her designee.
 11. Payment of all applicable fees. When the required information is verified and approved by the Fire Department a "Site Blasting Permit" and a permit number will be issued to the applicant.

3310.1.4. Details of Requirements for Obtaining Blasting Permits

3310.1.4.1 Permit Fees. All permit fees are in accordance with the current fee schedule adopted by City Resolution. Explosives permits and fees are required for the following activities:

- Certificate of Fitness cards – Good for 3-years
- 3-day site Blasting Permit – Good for 3-days at a specified location
- 30-day site Blasting Permit – Good for 30 days at a specified location
- Explosives Magazine Permit - Undetermined

3310.1.4.2 Financial responsibility. Before a permit is issued, as required by the International Fire Code Section 3301.2, the applicant shall file with the City of Prescott a surety bond in the principal sum of \$1,000,000 (one million dollars) or a public liability insurance policy for the same amount, for the purpose of payment of all damages to persons or property which arise from, or are caused by, the conduct of any act

authorized by the permit upon which any judicial judgment results. The Fire Marshal or his/her designee is authorized to specify a greater or lesser amount when, in his/her opinion, conditions at the location of use indicate a greater or lesser amount is required.

3310.1.4.3 Proof of Insurance. A valid Certificate of Insurance shall be on record with the Division of Fire Prevention or submitted to the Fire Marshal or his/her designee with each application, when applying for a permit, to conduct blasting operations.

The certificate shall be issued by an insurance company authorized to transact business in the State of Arizona, and the following information shall be identified:

1. The contractor shall be named as the insured. If the insurance is provided by an individual, company or partnerships other than the contractor, the contractor shall be named as an additional insured.
2. The City of Prescott, its officers, agents, employees and volunteers shall be named as additional named insures and additional certificate holder.
3. Commercial general liability limits, including contractual liability, in the minimum amount of \$1,000,000.00, per occurrence.

3310.1.4.4 Indemnification. Each permit, issued under the authority of this Chapter, shall contain the following indemnification provision:

"The permitted hereby fully indemnifies, holds harmless and agrees to defend the City of Prescott, its agents, officers and employees from any and all claims, expenses, losses, liability, actions, suits or demands, including legal defense costs thereof, of whatever nature, arising out of or connected with this blasting permit."

Exception: Government entities shall be exempt from this bond requirement.

3310.1.4.5 Certificate of Fitness Card Requirements. A Certificate of Fitness card shall be issued to individuals who submit the appropriate documentation issued by the U.S. Department of Justice Bureau of Alcohol, Tobacco, Firearms and Explosives, etc., or, who complete and pass an oral and/or written Fire Department exam, as approved by the Fire Marshal or his/her designee, and submit the completed application including finger prints and required permit fee(s).

Certificate of Fitness cards shall be valid for three years from the date of issuance unless revoked or suspended by the Fire Marshal or his/her designee.

Certificate of Fitness cardholders shall be re-certified every three years, on or before the date of issuance, by re-testing and passing, or having documentation of 16 hours of approved continuing education in the use, handling, and storage of explosive materials.

3310.1.4.6 Revocation or Suspension of Permit and/or Fitness Card. The Fire Marshal or his/her designee is authorized to suspend or revoke any permit or portion thereof or any Certificate of Fitness Card under the following circumstances:

1. The permit holder or Certificate of Fitness cardholder fails to follow the requirements of any Federal, State, or local regulations;
2. The permit holder or Certificate of Fitness cardholder fails to follow any condition of the permit;
3. The permit holder or Certificate of Fitness cardholder intentionally misrepresents or gives false information to the Fire Marshal or his/her designee in order to obtain or maintain a permit or Certificate of Fitness card;
4. The permit holder or Certificate of Fitness cardholder intentionally falsifies any record or report required to be submitted or kept by these regulations.
5. The use or storage of explosive materials under the authority of the Licensed Contractor or his/her Certificate of Fitness cardholder causes or may cause an imminent hazard to public health, safety, or welfare.

Upon notification, that a permit or Certificate of Fitness card has been suspended or revoked, all storage of explosive materials and blasting and drilling activities, as specified in the order, shall immediately cease and desist. All operations and all explosive materials shall be removed from the permit area immediately. Such notification shall be by any of the following methods:

1. Posting the notice at the permit area;
2. Personal service on individuals performing blasting operations;
3. Facsimile;
4. Telephone;
5. Electronic mail; or
6. First Class U.S. mail.

The Fire Marshal or his/her designee is authorized, but not required, to reinstate a suspended permit and/or Certificate of Fitness card at such time as the conditions that caused the suspension have been corrected. If the conditions have not been corrected, to the satisfaction of the Fire Marshal or his/her designee within 5 business days of the serving of the notice of suspension, the permit shall be automatically revoked. A permit and/or Certificate of Fitness card that has been revoked may not be reinstated to the original permit holder or original Fitness cardholder.

3311
PRESCOTT - SEISMOGRAPH

3311.1 Seismograph Monitoring Location(s) A minimum of one seismograph shall be placed and activated at the nearest structure or building to the blast site during each blast. Additional seismographs may be required by the Fire Marshal or his/her designee.

3311.2 Seismograph Monitoring Equipment The operation of all seismographs shall adhere to the following:

1. Blasting seismographs shall meet all specifications and be deployed in the field in accordance with the current International Society of Explosive Engineers (ISEE) guidelines entitled "Field Practice Guidelines for Blasting Seismographs" (www.isee.org).
2. The ground vibration and airblast measuring systems shall have a flat response between 2 and 200 Hz.
3. The ground vibration channels shall be set to trigger at 0.05 in/sec and the airblast channel shall be set to trigger at 125 dB and set on the maximum range. A higher airblast trigger of 132 dB shall be used during high wind conditions.
4. A wind screen shall be used to cover the airblast transducer to eliminate wind pressure interference with the airblast.
5. Geophones shall be well-coupled to the ground.
6. Seismograph settings shall prevent the overwriting of any and all seismograph events captured during blasting.
7. Seismic monitoring shall be conducted by someone who has had some training and experience to operate according to the manufacturer's guidelines.

3311.3 Ground Vibrations

1. Ground vibration shall be limited in accordance with Figure 1 on page 10. The use of Figure 1 requires seismograph monitoring at the closest structure.
2. Seismograph reports will be furnished to the Fire Marshal or his/her designee upon request to the blasting contractor. Seismograph reports shall include:
 - a. Date and time of recording(s)
 - b. Name of the person and firm taking the reading
 - c. Name of the person and firm analyzing the seismographic record

- d. Type of instrument, serial number and calibration signal or certification of annual calibration
- e. Trigger levels used for the ground motion and airblast
- f. Show location on a scaled map for each seismograph by address, if applicable
- g. Measured distance and direction from the blast to each seismograph
- h. Ground motion time histories for three mutually perpendicular components
- i. Airblast time history
- j. Peak particle velocity (PPV) and the frequency at the PPV
- k. Peak airblast in decibels (dB) and pounds per square foot (psf) and the frequency at the peak
- l. Maximum pounds of explosives per 8 milli-second (ms) delay for the blast

3311.4 Airblast Airblast shall not exceed the maximum limit of 133 dB sound pressure level equivalent of air pressure measured on a linear-weighted scale at the location of any building.

3311.5 Fly Rock Provisions to prevent and control fly rock shall be used when blasting in congested areas or in close proximity to a structure, railway, or highway or any other installation where the blasting may cause injury or damage as determined by the Blaster in Charge or the Fire Marshal or his/her designee.

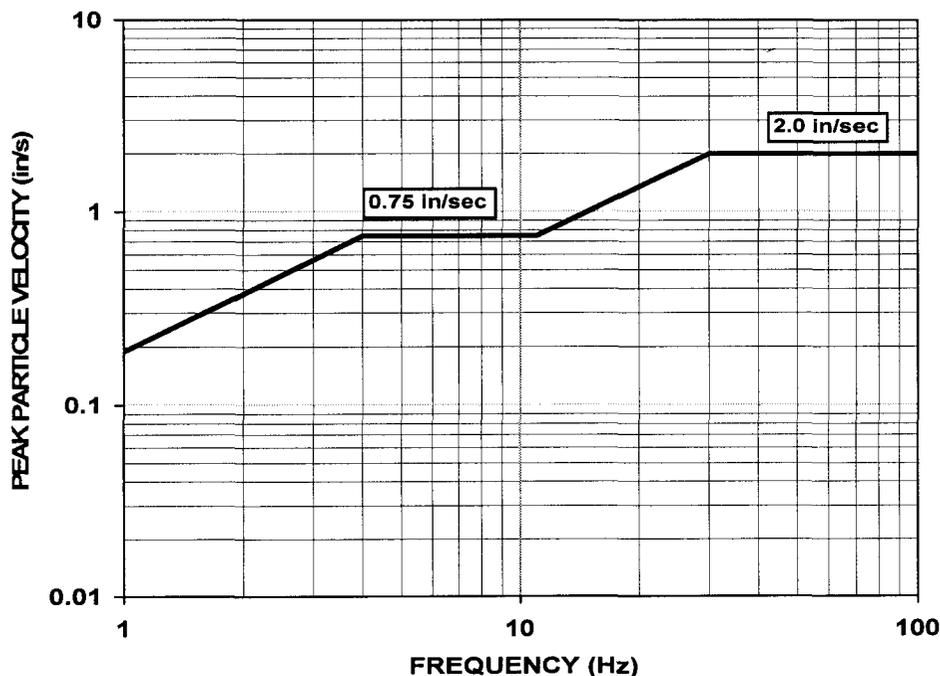


Figure 1: Maximum allowable peak particle velocity versus blast vibration frequency (NFPA Figure 11.1.2.1[b])

**3312
PRESCOTT – NOTIFICATION PLAN**

3312.1 Fire Communications Notification. The permit holder is required to contact Regional Communications Center at (928) 445-5357, a non-emergency dispatch telephone number, within 30 minutes prior to the five (5) minute warning signal or initiating any permitted blasting. The applicant shall provide information to Fire Dispatch as follows:

- Permit number
- Contractors name providing the blasting service
- Location of blasting site
- Date and time the blasting is proposed

3312.2 Written Public Notification. The contractor or his designee (permit holder) shall provide verbal and/or written notification to anyone within the distance required by the notification chart (Figure 2) no less than twelve (12) hours prior to the blast and/or as otherwise required by the Fire Marshal or his/her designee.

A blasting notification mailing shall be sent to all property owners, and homeowners associations with a copy provided to the Fire Marshal or his/her designee within the scaled notification distance from the perimeter of the Assessor’s parcel numbers or applicant’s designated blast site(s) upon which the blasting permit is requested no less than 7 days and no greater than 21 days prior to the start of blasting operations. When fewer than five (5) different property owners are within the notification distance, the applicant may propose a custom plan for informing these owners pursuant to this section. The Fire Chief and Fire Marshal may accept or modify this plan.

The notification distance for a blasting notification mailing shall be based on Figure 2. The distance from the perimeter of the Assessors Parcel Number containing the closest blast site for notifying property owners is the point where the weight intersects the line

Figure 2

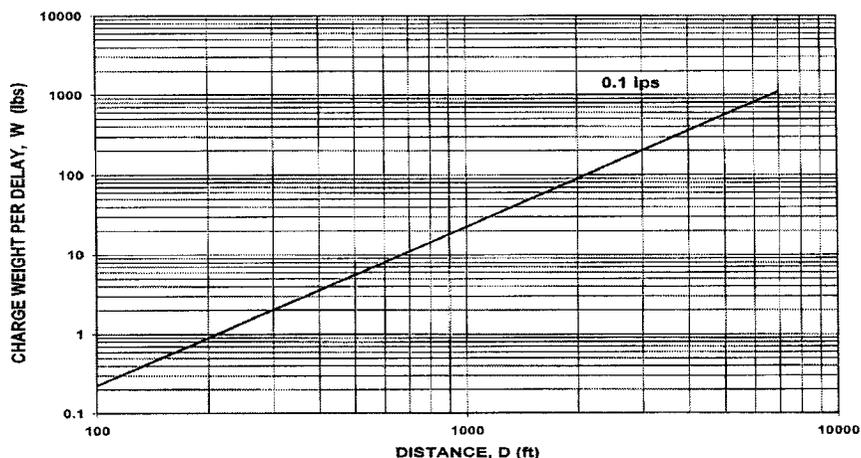


Figure 2 is based on the following equation: $D \text{ (ft)} = 210 * W^{1/2} \text{ (lbs)}$ where D is the scaled notification distance and W is the maximum charge weight per 8 ms delay.

on the chart. The weight is based on the applicant's statement stating the maximum anticipated pounds of explosives in any single delay.

3312.3 Notification Format. In the event notification is not "face to face" a door-hanger type of notice shall be hung on every occupancy within the distance required by the notification chart and shall include information as follows:

1. The contractor's and his/her company's name and phone number
2. The company's Blaster in Charge name and phone number
3. Dates and times blasting will be conducted
4. Duration of the blasting project

3313 PRESCOTT - REPORTING

3313.1 Blast Reports

The Certificate of Fitness cardholder shall maintain an accurate blast report for each blast. Blast reports shall be retained for at least 5 years. When requested, a copy of the blast report shall be submitted to the Fire Marshal or his/her designee.

The blast report shall contain, at a minimum, the following:

1. Name, signature and permit number of the Blaster in Charge and person for whom blasting operations are conducted
2. Date and time of detonation and location or address of the blast site
3. Type of material blasted
4. Total number of drill holes, their depth, diameter, and sub-drill depth
5. Burden, and spacing used in the blasting pattern
6. Type and height or length of stemming
7. Total pounds of each type of explosive used
8. Initiation system and delay periods used in design
9. Schematic showing the drill-hole pattern and detonation timing of each blast hole
10. Weather conditions, including those which may cause possible adverse blasting effects
11. The maximum weight of explosives detonated in an 8-millisecond period
12. Type and size of any fly rock protection devices used, if any
13. Distances in feet to and addresses of all closest buildings to the blast site in all directions
14. Reasons and conditions for each unscheduled blast

15. Type of delay caps used and delay periods used
16. The person taking the seismograph reading shall accurately indicate exact location of the seismograph and shall show the distance of the seismograph from the nearest point at the blast site in feet
17. Name of person and firm analyzing the seismograph record and readings
18. Sketch of blast pattern including number of holes, burden and spacing distance, delay pattern, hole profile and decking if used.

3313.2 Noncompliant Incident Report

When a blast exceeds established limits such as, but not limited to, ground vibration, airblast, or fly rock, as specified herein, the permit holder shall provide both written (e-mail, fax or hand delivered) and verbal (telephone or in-person) notification to the Fire Marshal or his/her designee using an approved form. The noncompliant incident report shall include all of the following:

1. State what specified limit was exceeded.
2. Complete copies of all seismograph reports showing full wave form time-histories, location of each seismograph and distances between each seismograph and the blast. If claiming a false wind event, a pre-blast noise event report (sensor confirmation test) must be submitted for one event before the actual blast in question, to demonstrate wind influence that may mask actual airblast time histories.
3. Explain why the specified limit was exceeded.
4. Outline corrective measures taken to prevent similar future occurrences.

If the incident caused injury, or damage to property, written notice shall be provided to the Fire Marshal or his/her designee within 1-hour of the time of the blast. This notice shall provide the City with the preliminary seismograph information and a preliminary damage assessment. A follow-up written report detailing the magnitude of the incident shall be provided within 24 hours of the time of the blast.

When a blast exceeds established limits as specified herein, and does not cause injury, or damage to property the permit holder shall file a written noncompliant incident report with the Fire Marshal or his/her designee within 24 hours of the event.

3313.3 Pre-blast Surveys

Pre-blast surveys shall comply with the following:

1. At the time of application for a blasting site permit, the blasting contractor, his designee, or his Certificate of Fitness cardholder may be required to provide written notification to all property owners within an area designated by the Fire

Marshal or his/her designee of their eligibility and procedure to request a pre-blast survey, prior to the issuance of a blasting permit. The blasting contractor, his designee, or his Certificate of Fitness cardholder, when required, shall provide a pre-blast survey to all requesting property owners within the area designated by the Blaster in Charge, Fire Marshal, or his/her designee.

2. When a pre-blast survey is conducted a high resolution digital camera shall be used.
3. The individual conducting the survey shall determine the condition of the building and shall document in writing, photographs and any supplemental sketches, any pre-blast damage and other physical factors that could reasonably be affected by the blasting to include the following:
 - A. Location and size of all existing cracks using a ruler or tape to depict size of crack.
 - B. Identify all walls and cracks both inside and outside with respect to compass orientation
 - C. Describe the drainage, (are eaves/down spouts away from the building?) type of roof, additions, foundation(s), vegetation and date the year the structure was built.
4. Utilities such as pipelines, cables, transmission lines, cisterns, wells, and other water systems warrant special attention; however, the assessment of these may be limited to surface conditions and other readily available data.
5. The written report of the survey shall be signed and dated by the person who conducted the survey.
6. Copies of pre-blast survey reports and any owner refusals shall be provided to the property owner and/or City of Prescott Fire Department upon request.

The Blaster in Charge shall use a seismograph to monitor each blast to assure compliance with (Figure 1), the Maximum Allowable Peak Particle Velocity versus Blast Vibration Frequency

3314 PRESCOTT - DEFINITIONS

AIR BLAST. An airborne pressure wave resulting from the detonation of explosives.

ATTEND. An unobstructed view of explosive material storage or within 100 feet (30.4m) of an explosive material transportation vehicle.

BLAST. Any detonation(s) of an explosive(s) being initiated simultaneously by a single energy source.

DECIBEL. Abbreviated as “dB”

BLAST AREA. The maximum distance surrounding the blast where flyrock, dust and toxic gases are expected to reach.

BLAST SITE. The area in which explosives materials are being or have been loaded and which includes all holes loaded or to be loaded for the same blast and for a distance of 50 (15 240mm) feet from the nearest hole in all directions.

BLASTER IN CHARGE (BIC). A person who holds a valid Certificate of Fitness card issued by the City of Prescott Fire Marshal or his/her designee and qualified to be in charge of and responsible for the design, loading and firing of an explosive and is responsible for compliance with the requirements of Federal, State, and Local Regulations.

BLAST HOLE. A hole drilled in the material to be blasted, for the purpose of containing an explosive charge, also called borehole or drill hole.

CERTIFICATE OF FITNESS. A card issued to an individual by the Prescott Fire Department upon successfully passing a written and/or oral examination, or possession of a valid Certificate of Fitness card issued by an authority approved by the Fire Marshal or his/her designee for the use, handling, manufacturing or storage of explosive materials within the City of Prescott.

EXPLOSIVE. Any chemical compound, mixture or device, the primary or common purpose of which is to function by explosion; including, but not limited to, water gel, slurries, emulsion, dynamites, pellet power, blasting caps, cast primers and boosters, detonating cord, detonating cord delay connectors, and blasting agents.

FIGURE 1. See page number 10. Maximum allowable peak particle velocity versus blast vibration frequency (NFPA Figure 11.1.2.1[b])

FLY ROCK. Rock and/or earth propelled from the blast area through the air or along the ground by the force of the detonated explosives.

MISFIRE. A charge of explosive material that fails to detonate completely after initiation.

PERMIT AREA. The area within the perimeter of the parcel(s) on which a blast site(s) exists.

PRE-BLAST SURVEY. A visual and written record of the examination of the existing observable conditions of a given building near an area where blasting is to be conducted. The purpose of the survey is to record the pre-blasting condition of the building and to document any observable defects or damage.

SPECIAL INSPECTION. Inspection(s) required by these regulations for the preparation and conducting of regulated blasting operations. The City reserves the right to conduct inspections at any time throughout the duration of the permit.

STORAGE (PERMANENT). Shall mean more than 90 days but less than 360 days. Permanent storage – 90 to 360 days. as defined in Chapter 33 (meaning over 90 days but less than 360) may be allowed by the Fire Marshal or his/her designee and shall be placed in an approved magazine for the storage of explosive materials and explosives and shall comply with Sections 3304.5.1 through 3304.5.3.3."

STORAGE (TEMPORARY). Shall mean no more than 90 days." Temporary storage – up to 90 days. As defined in Chapter 33, Temporary storage (up to 90 days) may be allowed by the Fire Marshal or his/her designee and shall be placed in an approved magazine and location for the storage of explosives and explosive materials and shall comply with Sections 3304.5.1 through 3304.5.3.3.

UTILITY. Any water, sewer, natural gas, electrical service, including unoccupied utility buildings, telecommunication line or distribution component, towers, and similar structures.

VELOCITY. The measurement of speed.

VELOCITY, PARTICLE. The velocity at which the earth vibrates, measured in inches per second.

VELOCITY, PEAK PARTICLE. The highest recorded particle velocity in any one of three mutually perpendicular directions.

VELOCITY, SEISMIC. The velocity at which a vibration or seismic wave travels outward from the source. It is measured in thousands of feet per second.

VIBRATION, BLASTING. The energy from a blast that manifests itself in vibrations which are transmitted through the earth away from the immediate blast area.

VIBRATION, GROUND. Shaking the ground, by elastic waves emanating from a blast; usually measured in inches per second of particle velocity.

VIBRATION, FREQUENCY. The number of cycles of vibration per unit of time. The units of frequency are in cycles per second or Hertz (Hz).

WIND SCREEN. A device used to cover the transducer end of an air pressure sensor to filter out high frequencies associated with wind-induced air pressure pulses.