



Redmond Fire & Rescue

Explosive Blasting Permit Requirements

Redmond Fire & Rescue requires a permit to be issued for any type of explosive blasting conducted within District boundaries. **In order to receive a permit, a complete packet must be submitted at least 14 days prior to blasting.** This permit shall be used in tandem with the City of Redmond Standards and Specifications Section 102.

Permitting

An operational permit must be obtained from the Redmond Fire & Rescue Fire Marshal's Office prior to blasting operations. The following information is required before the issuance of a permit for blasting operations:

1. An original corporate surety bond in the minimum sum of \$1,000,000.00 or an original public liability insurance policy for the same amount. The bond or policy shall be in force for the duration of the blasting operations. Redmond Fire & Rescue shall be listed on the policy.
2. Redmond Fire & Rescue Permit Application obtained by contacting the Redmond Fire & Life Safety Office or the website.
3. Provide a copy of stamped approved construction plans or notice to proceed from the City of Redmond or Deschutes County.
4. Copy of the blasting company's current Federal Explosives License/Permit or Limited Intrastate Permit as issued by the Federal Bureau of Alcohol, Tobacco & Firearms (ATF).
5. Blasting Plan prepared in accordance with 2018 NFPA 495 and industry standards. It must include:
 - a. Explosives delivery information
 - b. Explosives storage information (magazine, location and responsible person)
 - d. Explosives products and loading information
 - e. Safety procedures
 - f. Pre-blast notification and proper posting in area of work in accordance with City of Redmond Public Works Standards and Specifications Section 102 - 00335.03 Blasting Influence Zones.
 - g. A site plan, 8 ½" x 11" minimum size, drawn to scale, indicating:

- a. Blasting area(s).
- b. Any structures and their distances from the blasting site.
- c. Nearby railway or roads.
- d. Any barricades, whether man made or natural.
- e. Location and distances from any utilities.
- h. Verification of contact with city, county, and local police or sheriff agency where work is being performed to determine if additional requirements apply.
- i. Pre-blast survey of any structures in accordance with City of Redmond Public Works Standards and Specifications 102 - 00335.03 Blasting Influence Zones. Unless the Blaster-in Charge determines a greater distance is necessary.
- j. A monitoring plan to identify how seismic monitoring will be conducted to ensure ground vibration does not exceed the maximum limit in 2018 NFPA 495 Figure 11.2.1 at the nearest structures or buildings.
- k. Where seismic monitoring is not provided, explosive use shall be limited to the “scaled distance factors” at the nearest structure as identified in 2018 NFPA 495 Table 11.2.2.
- l. Post blast monitoring and seismic report. Provide a copy to RFR when requested.

Note: Blasting operations shall be overseen by a Blaster-in-Charge qualified to perform such work.

Conditions for Blasting Operations

1. Forty-eight (48) hour notice shall be given to the Fire Marshal’s Office for site inspection of the initial blasting activity. If requested.
2. Deschutes County 911 shall be contacted at 541-693-6911 prior to blasting.
3. All federal, state and local laws and regulations applicable to obtaining, owning, transporting, storing, handling and using explosive materials shall be followed.
4. Explosive materials shall be protected from unauthorized possession and shall not be abandoned.
5. Explosive materials shall be used only by experienced persons who are familiar with the hazards involved and who hold all required permits.
6. No explosive materials shall be located or stored where they may be exposed to flame, excessive heat, sparks or impact.
7. No smoking shall be permitted within 50 ft of any location where explosives are being handled or used. No person within 50 ft of any location where explosives are being handled or used shall carry any matches, open light or other fire or flame, except for approved devices for lighting safety fuses.
8. No blasting operations shall be conducted in a manner contrary to the instructions of the manufacturer of the explosive materials being used.

9. All explosive materials not in the process of manufacture, being transported or being used shall be kept in storage magazines. Storage magazines shall comply with federal explosives storage requirements.
10. Where blasting is done in a congested area or in close proximity to a structure, railway or highway, or any other installation, precautions shall be taken to minimize earth vibrations and air blast effects. Blasting mats or other protective means shall be used to prevent fragments from being thrown.
11. Persons authorized to prepare explosive charges or to conduct blasting operations shall use every reasonable precaution, including but not limited to warning signals, flags, barricades, mats or other equally effective means to ensure the safety of the general public and workers.
12. At all blasting operations, the ground vibrations on any axis shall not exceed the limitations specified in Figure 11.2.1 of the 2018 edition of NFPA 495 at the location of any building or structure.
13. When blasting is not monitored with a blasting seismograph, the operation shall comply with the scaled distance factors at the nearest building or structure as shown in Table 11.2.2 of the 2013 edition of NFPA 495.
14. Seismograph readings must be provided to the Fire Marshal's Office upon request.
15. Blasting operations shall only be conducted during daylight hours except when authorized at other times by the Fire Marshal's Office.
16. Where blasting is being conducted in the vicinity of utility lines or rights-of-way, the blaster shall notify the appropriate representatives of the utilities not less than 24 hours in advance of blasting, specifying the location and intended time of such blasting. Verbal notices shall be confirmed with written notice.
17. Precautions shall be taken to prevent accidental discharge of electric detonators from currents induced by radar and radio transmitters, lightning, adjacent power lines, dust and snowstorms, or other sources of extraneous electricity. Such precautions are listed in Section 10.1.19 – 10.1.19.2 of the 2013 edition of NFPA 495.
18. After loading for a blast is completed and before firing, excess explosive materials shall be removed from the area and returned to the proper storage facilities.
19. The blaster shall supervise the connecting of the blastholes and the connection of the loadline to the power source or initiation point. Connections shall be made progressively from the blasthole back to the initiation point. Blasting lead lines shall remain shunted (shorted) and shall not be connected to the blasting machine or other source of current until the blast is to be fired.
20. Cap and fuse shall not be used to initiate blasts in congested areas, or on or adjacent to highways open to traffic.
21. An adequate warning signal approved by the Fire Marshal's Office must be given prior to the blast being fired.
22. After the blast, the following procedures shall be observed.
 - a. No person shall return to the blast area until allowed to do so by the blaster in

charge.

b. The blaster shall allow sufficient time for smoke and fumes to dissipate and for dust to settle before returning to or approaching the blast area.

c. The blaster shall inspect the entire blast site for misfires before allowing other personnel to return to the blast area.

23. Where a misfire is suspected, all initiating circuits shall be traced, and a search made for unexploded charges. Where a misfire is found, the blaster shall provide proper safeguards for excluding all personnel from the blast area. Misfires shall be reported to the blasting supervisor immediately. Misfires shall be handled under the direction of the person in charge of the blasting operation in accordance with NFPA 495.

24. Conditions for blasting must meet all requirements of the Oregon Fire Code and NFPA 495.

Should emergencies or unforeseen circumstances requiring immediate attention arise, please call 9-1-1. Other concerns may be directed to the Fire Marshal's Office at 541-504-5010.