



# CONCORD FIRE DEPARTMENT

## *Fire Prevention Division*

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### **BLASTING & EXPLOSIVES OPERATIONS SPECIAL USE PERMIT REQUIREMENTS**

1. All Blasting operations shall be conducted in accordance with Chapter 56 of the 2018 North Carolina Fire Code.
2. A permit shall be required before beginning blasting operations.
3. Proof of insurance and bond shall be provided to the Fire Prevention Division.
4. All blasting operations shall be conducted during daylight hours.
5. All blasting operations, use and storage of explosives shall be conducted by an individual of at least 21 years of age. Any persons 18 years of age may be allowed to use, handle explosive materials provided they are under direct supervision of a person who possess a valid explosives permit.
6. Smoking, open flames, etc. shall be prohibited in or near 50 feet of magazines or while explosives are being handled, transported or used.
7. Explosives not being use shall be kept in a locked magazine.
8. Separate magazines shall be used for detonators and explosives.
9. Proper precautions shall be taken when blasting occurs in the vicinity of structures, highways, railways congested areas, etc. Proper stemming and mats shall be used shall be in place to control fly rock.
10. Warning signs against the use of mobile radio transmitters shall be posted on all roads within 1000 feet of blasting operations where electric detonators are being used.
11. Empty boxes, paper, etc shall be properly disposed of after use.
12. Explosive or blasting supplies shall not be transported with other cargo.
13. When transported on the same vehicle, blasting caps shall be separated from other explosives by containment in a Class n Magazine.
14. The proper type vehicle shall be used for the transportation of explosives.
15. Such vehicle:
  - a. shall contain (2) 5lb. ABC type fire extinguisher.
  - b. shall display placards on all 4 sides with the proper DOT placarding -EXPLOSIVES 1.1, 1.2, 1.3 or BLASTING AGENTS or EXPLOSIVES -red letters, white background, with 4 " letters.

- c. shall be a covered or TYPE II magazine (Secured).
- d. shall contain no extraneous material in cargo area.
- e. shall be lined with a non-sparking material.
- f. shall not be left unattended.
- g. shall not be used for overnight storage.
- h. shall be driven by an individual possessing a valid North Carolina CDL with proper endorsements. All drivers shall be able to speak, understand, and write the English language.
- i. shall not be driven by an individual smoking or carrying matches, cigarette lighters or smoking materials.
- j. shall be properly powered to carry all loads.
- k. shall have all tires properly inflated.
- l. shall have no oil, fuel, etc. leaks.
- m. shall have all warning lights and horns shall be in proper working order.
- n. shall have windshield wipers in proper working order.
- o. shall display a valid DOT inspection sticker.

16. All machinery and tools shall be removed from the blast area prior to explosives being delivered.

17. No activity other than that required for loading explosives shall be permitted in the blast area.

18. No loaded holes shall be left unattended.

19. Blasting cap leg wires shall be kept shunted until connected into the circuit for firing.

20. Insulated single solid wires shall be used for connecting wires, lead wires and bus wires.

21. A blasting galvanometer shall be used to test all circuits and blasting caps. Use of an electrical testing meter is prohibited.

22. After firing an electric blast, the lead wires shall be disconnected immediately and shunted.

23. A warning signal (1-minute series of long blast) shall be given 5 minutes prior to shot.

24. A blast signal (a series of short blast) shall be given 1 minute prior to the shot.

25. An all-clear signal (a prolonged blast) shall be given following the inspection of the blast area.

26. If a misfire is found, the area shall be safeguarded to exclude all employees from the danger area.

27. A new primer shall be inserted into the misfire hole and re-blasted.

28. No blasting operations shall be conducted during an electrical storm.

29. A seismograph shall monitor all seismic activity.

30. The Bureau Chief may seize, take, remove, or cause to be removed at the expense of the owner all explosive materials offered or exposed for sale, stored, possessed, used or transported in violation of Chapter 33 of the 2002 North Carolina Fire Code.