



Explosives Laws

Article 16 of the Labor Law Sections (§ 450 – § 465)

and

Part 39 of Title 12 of the Official Compilation of Codes,
Rules and Regulations of the State of New York.

(Cited as 12 NYCRR 39)

Table of Contents

Article 16. Explosives	4 - 15
§ 450. Application of article.	4
§ 451. Definitions.	5
§ 452. Packing and labeling.	6
§ 453. Storage.	6
§ 454. Construction of magazines.....	6
§ 455. Magazine precautions.	7
§ 456. Location of magazines.	7
§ 457. Relocation of magazines.	7
§ 458. Licenses and certificates.	8
§ 459. Denial or revocation of license or certificate.....	10
§ 460. Seizure, impounding, destruction or disposition of explosives.	11
§ 461. Record and notice of sales, deliveries or gifts.	12
§ 462. Rules and regulations.	13
§ 463. Review.	13
§ 464. Costs and penalties.....	14
§ 464-a. Local laws.	15
§ 465. Separability.	15
12 NYCRR 39. Possession, Handling, Storage and Transportation of Explosives... 17 - 48	
39.1 Application.....	17
39.2 Definitions.	17
39.3 Responsibility to observe rules and regulations.	20
39.4 Licenses required.....	20
39.5 [Repealed and reserved for future use].....	20
39.6 General provisions for the storage and handling of explosives.	20
39.7 [Repealed and reserved for future use].....	25
39.8 Construction and maintenance of magazines.	25

39.9 Location of magazines. 33

Table 1 High Explosives Quantity and Distance Table 34

Table 2 Low Explosives Quantity and Distance Table 37

Table 3 Ammonium Nitrate and Blasting Agents Quantity and Distance Table..... 38

39.10 General provisions for the possession, handling, storage and
transportation of blasting agents. 40

39.11 Transportation of explosives. 41

39.12 Special provisions relating to black powder. 45

39.12 Special provisions relating to black powder. 46

39.13 Severability. 48

Article 16 - Explosives

Section

- 450. Application of Article.
- 451. Definitions.
- 452. Packaging and labeling.
- 453. Storage.
- 454. Construction of magazines.
- 455. Magazine precautions.
- 456. Location of magazines.
- 457. Transportation.
- 458. Licenses and certificates.
- 459. Denial or revocation of license or certificate.
- 460. Seizure, impounding, destruction or disposition of explosives.
- 461. Record and notice of sales, deliveries or gifts.
- 462. Rules and regulations.
- 463. Review.
- 464. Penalties.
- 464-a. Local laws.
- 465. Separability.

§ 450. Application of article.

1. This article shall apply to persons engaged in the manufacture, ownership, possession, storage, use, transportation, purchase, sale or gift of explosives as defined in subdivision one of section four hundred fifty-one of this article.
2. This article shall not apply to explosives while being transported in conformity with federal law or regulations, nor except as may be herein otherwise provided to persons who manufacture, own, possess, store, use, transport, purchase, sell or give explosives within the territorial boundaries of cities having more than one million inhabitants, nor to any of the following while in the performance of their official duties: the armed forces of the United States, the national guard, the state guard and duly constituted police and firefighting forces of the state and its civil and political subdivisions.
3. For all purposes of this article, explosives in the possession of an employee within the scope of his duties, shall be considered to be in the possession of the employer.

§ 451. Definitions.

Whenever used in this article:

1. "Explosives" means gunpowder, powders used for blasting, high explosives, blasting materials, detonating fuses, detonators, pyrotechnics and other detonating agents, fireworks and dangerous fireworks as defined in section 270.00 of the penal law, smokeless powder and any chemical compound or any mechanical mixture containing any oxidizing and combustible units, or other ingredients in such proportions, quantities, or packing that ignition by fire, friction, concussion, percussion or detonation of any part thereof may cause and is intended to cause an explosion, but shall not include gasoline, kerosene, naphtha, turpentine, benzine, acetone, ethyl ether, benzol or quantities of black powder not exceeding five pounds for use in firing of antique firearms or artifacts or replicas thereof. Fixed ammunition and primers for small arms, pyrotechnic devices which are designed for and being used for legitimate wildlife management or controls, safety fuses and matches shall not be deemed to be explosives when, as provided by regulation, the individual units contain any of the above-mentioned articles or substances in such limited quantity, of such nature and so packed that it is impossible to produce an explosion of such units to the injury of life, limb or property.
2. "Highway" means any public street, public highway, public alley or navigable waterway, which is open for traffic. Navigable waterways shall be considered as only those susceptible of being used, in their ordinary condition, as highways of commerce.
3. "Railroad" or "railway" means any railroad that carries passengers or freight for hire, but shall not include auxiliary tracks, spurs and sidings installed and primarily used in serving any mine, quarry or plant.
4. "Building" means any building regularly occupied in whole or in part as a habitation for human beings, and any church, school house, railway station or other building or place where people are accustomed to live, work or assemble, but does not mean or include any of the buildings of a manufacturing plant where the business of manufacturing explosives is carried on.
5. "Explosives factory" means any building or other structure in which the manufacture of explosives or any part of the manufacture thereof is carried on.
6. "Magazine" means any building or other structure, other than an explosives factory, used to store explosives.
7. "Efficient barricade" means natural features of the ground, a dense woods, an artificial mound or a properly revetted wall of earth not less than three feet thick at the top, spaced at least three feet at the bottom from any explosives factory or magazine, the height of which is such that any straight line drawn from the top of any side wall of the explosives

factory or magazine to the top of a building or to a point twelve feet above the center of a railroad or highway to be protected will pass through such intervening barricade.

8. "Person" includes any natural person, partnership, association or corporation.

9. "Manufacturer" means any person who is engaged in the manufacture or production of explosives.

10. "Dealer" means any person engaged in the business of buying and selling explosives.

11. "Pyrotechnics" means any combustible or explosive compositions of manufactured articles designed and prepared for the purpose of producing audible or visible effects that are commonly referred to as fireworks.

§ 452. Packing and labeling.

No person shall own, possess, store, deal in, sell, give or purchase explosives unless the packing, or encasement, and the marking and labeling of such explosives shall comply with the regulations promulgated pursuant to this article.

§ 453. Storage.

No person shall store explosives except in a magazine constructed, located and certified in accordance with the provisions of this article and the regulations promulgated pursuant to this article. The magazine certificate shall be attached to the magazine on the inside of each such magazine. No person shall store more than three hundred thousand pounds of explosives in any one magazine at any time. Explosives not stored in compliance with this section shall be deemed to present a danger to the public, including but not limited to, emergency responders and other persons lawfully frequenting the area and as such, are subject to seizure and destruction pursuant to subdivision five of section four hundred sixty of this article.

This section shall not apply to explosives while being legally blasted or while legally in the custody of a common carrier awaiting shipment or delivery to a consignee during the time permitted by federal law; nor to the storage of such limited amount of sporting or smokeless powders as may be permitted by the regulations promulgated pursuant to this article.

§ 454. Construction of magazines.

Unless otherwise prescribed by the regulations promulgated pursuant to this article, magazines in which explosives shall be lawfully kept or stored shall be constructed of brick, concrete, metal or wood covered with metal, and shall have no openings except for ventilation and entrance. All explosive magazines, except those in mines and tunnels,

shall be located above ground. All explosive magazines shall be kept clean and dry at all times.

§ 455. Magazine precautions.

1. No individual shall unlock, open the doors of, or access the contents of, explosive magazines, except for the lawful storage or removal of explosives and in accordance with regulations of the commissioner. No employer shall allow any individual access to the explosive magazines or explosives of the employer unless a license has been issued to the individual by the commissioner as provided in this article, or the individual is under the direct supervision of the license holder.

No person shall have matches or fire of any kind in any magazine. No person shall store or keep blasting caps, detonating or fulminating caps, or detonators in a magazine in which any other type of explosive is stored or kept. No person shall open any package of explosives within fifty feet of any magazine, nor shall any explosives be kept in a magazine except in the original containers, or as otherwise provided by regulations promulgated under this article. No person shall discharge firearms within five hundred feet of a magazine or explosives factory, or at or against any such building or magazine. Any theft or loss of explosives from a storage magazine or otherwise, shall immediately be reported to the commissioner and the state or local police or county sheriff.

§ 456. Location of magazines.

The quantity of explosives that may be stored in any explosives factory or magazine shall depend upon its distances from the nearest building, railroad or highway or other magazine. The distances that a quantity of explosives may be stored from the nearest magazine, building, railroad or highway, shall be as determined by the regulations promulgated pursuant to this article. All such distances may be reduced one-half when the magazine, building, railroad or highway to be protected is adequately screened from the explosives factory or magazine by an efficient barricade as defined in subdivision seven of section four hundred fifty-one of this article.

§ 457. Relocation of magazines.

1. When any magazine is moved from the location for which it was certified according to section four hundred fifty-six of this article, and the magazine is or is intended to be used for the storage of explosives and will be in the new location for more than twenty-four hours, the commissioner shall be notified as to the new location of the magazine. Such notification shall be made no later than one business day prior to the move. The notification shall contain all of the information required by the commissioner.

2. The provisions of subdivision one of this section shall not apply where the relocation has been ordered by police, fire or other authorized emergency personnel, or where the continued storage in the current location would constitute a threat to life or property. In

such cases the commissioner shall be notified as soon as practicable after the relocation but in no case more than two business days following such relocation.

3. When a magazine is abandoned, sold or removed from service, the certificate holder shall notify the commissioner no later than three business days from the date of such action and shall surrender the certificate to the commissioner.

§ 458. Licenses and certificates.

1. No person shall purchase, own, possess, transport or use explosives unless a license therefor shall have been issued as provided in this article.

Application for such a license shall be made to the commissioner on forms provided and shall contain such information as the commissioner may require. Where the commissioner finds that the applicant has complied with the requirements of this article and the rules promulgated hereunder, the commissioner shall issue such license or renewal thereof which shall be valid for not less than one year from the date of issuance. Such application and each renewal thereof shall be accompanied by a non-refundable fee of not less than fifty dollars to be payable to the commissioner.

2. No person shall manufacture, deal in, sell, give, test, or dispose of explosives unless a license therefor shall have been issued to such person for that purpose by the commissioner as provided in this article, nor shall any person sell, give, test, or dispose of explosives to, or manufacture explosives for any person who does not hold a license as provided by subdivision one of this section.

Application for such a license shall be made to the commissioner on forms provided and shall contain such information as the commissioner may require. The commissioner, after investigation of the application, shall issue a license or renewal thereof, which shall be valid for not less than one year from the date of issuance, where the commissioner finds that the applicant has complied with the requirements of this article and the rules promulgated hereunder. Each application for such a license, or for its renewal, shall be accompanied by a fee of not less than one hundred dollars non-refundable to be payable to the commissioner.

3. No person shall keep or store explosives unless a certificate therefor shall have been issued by the commissioner as provided in this section.

Application for such a certificate shall be made to the commissioner on forms provided and shall contain such information as the commissioner may require. The commissioner, where it is found that the applicant has complied with the requirements of this article, the rules promulgated hereunder and all other applicable sections of this chapter and regulations promulgated by the commissioner, shall issue a certificate or a renewal thereof, which shall be valid for not less than one year from the date of issuance. In addition to any other causes for revocation of a certificate hereinafter provided, the

commissioner may revoke or modify such certificate because of any change in the conditions under which it was granted, or for failure to pay the required fee. The owner or user of a magazine shall pay to the commissioner a fee of not less than fifty dollars, which shall be proportioned according to the quantity and type of explosives authorized by the certificate to be stored in the magazine.

4. An application for a license or a certificate pursuant to this section shall contain information sufficient to identify the applicant, and the purpose for which and the place where the explosives are to be used, manufactured, dealt in, given, disposed of or stored, as the case may be, and to demonstrate the eligibility of such applicant for the license or certificate requested. The commissioner may require that the application include, among other things, photographs, fingerprints and personal references. Such fingerprints shall be submitted to the division of criminal justice services for a state criminal history record check, as defined in subdivision one of section three thousand thirty-five of the education law, and may be submitted to the federal bureau of investigation for a national criminal history record check. An application for a license or certificate required to be filed with the department pursuant to this section shall be signed by the applicant and affirmed by him or her as true under penalty of perjury.

5. Before a license or certificate is issued, the commissioner shall investigate the eligibility of the applicant. The commissioner shall have the authority to request and receive from any department, division, board, bureau, commission or agency of the state or local government thereof such assistance and information as will enable the commissioner to properly and effectively carry out the powers and duties under this article.

6. (a) The investigation prescribed in subdivision five of this section may include, but is not limited to the following:

(1) a personal interview of the applicant by a designated agent of the commissioner if the commissioner is unable to make a determination on the basis of the factors contained in the application;

(2) an examination as to the applicant's knowledge and ability with respect to basic safety precautions in the possession, handling, storage, manufacture and transportation of explosives, and for such purpose the commissioner may prescribe tests which the applicant shall be required to pass as a prerequisite to the issuance of the license or certificate. The test may be administered by any person or agency designated by the commissioner.

(b) The investigation prescribed in subdivision five of this section shall include a report from the New York state identification and intelligence system, and such other identification services of the state or federal government as may be necessary or appropriate for this purpose.

7. The commissioner may waive any of the procedures set forth in paragraph (b) of subdivision six of this section with respect to any applicant for whom criminal history or other information has been obtained from any federal bureau or agency.

8. Except for the provisions of subdivision eleven of this section, this section shall not apply to smokeless powder.

9. Within thirty days after the issuance of a license or certificate under this section, the commissioner shall notify the chief executive officer of the municipality where the licensee resides or where the certificate holder has his or her place of business of the issuance of such license or certificate, and provide such officer with such other information pertaining thereto as the commissioner may prescribe.

10. Agencies of the United States, the state and its political and civil subdivisions which are subject to the requirements of this article and which, in the exercise of their functions, are required to purchase, own, store, use or transport explosives shall not be liable for the payment of any fee required by this section.

11. No explosives shall be sold, given or delivered to any individual under eighteen years of age, whether such individual is acting for himself, herself or for another person, nor shall any such individual be eligible to obtain any license or certificate required under this section.

§ 459. Denial or revocation of license or certificate.

1. A license or certificate, or the renewal thereof may be denied where the commissioner has probable reason to believe, based on knowledge or reliable information, or finds, after investigation, that the applicant or any officer, servant, agent or employee of the applicant is not sufficiently reliable and experienced to be authorized to own, possess, store, transport, use, manufacture, deal in, sell, purchase or otherwise handle, as the case may be, explosives, lacks suitable facilities therefor, has been convicted of a felony, is disloyal or hostile to the United States, has been confined as a patient or inmate in a public or private institution for the treatment of mental diseases or has been convicted under section four hundred eighty-four of the general business law. Whenever the commissioner denies an application for a license or certificate or the renewal thereof, within five days of such denial, notice thereof and the reasons therefor shall be provided in writing to the applicant. Such denial may be appealed to the commissioner who shall follow the procedure provided by subdivision four of this section.

2. The commissioner may revoke any certificate or license on any ground or grounds authorized in subdivision one of this section for the denial of a license or certificate, or for a violation of the terms of such license or certificate, or for a violation of any provision of this article or regulations promulgated hereunder, or for non-compliance with any order issued by the commissioner within the time specified in such order.

The commissioner may, where he or she has probable reason to believe, based on knowledge or reliable information, that a licensee or certificate holder is disloyal to the United States, summarily revoke the license or certificate or may give such licensee or certificate holder notice and opportunity to be heard as provided in subdivision four of this section. Revocation of a license or certificate for any other ground may be ordered only after giving written notice and an opportunity to be heard to the holder thereof. Such notice shall specify the ground or grounds on which it is proposed to revoke the license or certificate. When a license or certificate is revoked, the commissioner may direct the seizure and/or disposition of explosives held by such licensee or certificate holder. Upon revocation of a license or certificate by the commissioner, the holder thereof shall surrender the license or certificate to the commissioner at once.

3. The commissioner may summarily suspend the license or certificate pending proceedings for revocation or other action, where he or she has reason to believe, based on knowledge or reliable information, that the continued possession of a license or certificate poses a danger to public health, safety or welfare, and incorporates a finding to that effect in his or her order. These proceedings shall be promptly instituted and determined. Such suspension shall be effective on the date specified in the order or upon service of a certified copy of such order on the license or certificate holder, whichever shall be later.

4. Unless, within fifteen days from the date of notice, the applicant for a license or certificate or the recipient of a notice stating that the commissioner proposes to revoke a license or certificate held by him or her, shall file a written answer with the commissioner denying the ground or grounds on which a license or certificate has been denied or not renewed or ground or grounds on which revocation of a license or certificate is sought, and shall request a hearing, the commissioner may make a final determination respecting the application for a license or certificate, or may revoke a license or certificate forthwith. If, within such fifteen days, the applicant, licensee or certificate holder files such answer and request for hearing, the commissioner shall schedule a hearing. The notice of hearing shall state the time, place, and subject of the hearing, and shall be mailed to the applicant, certificate holder or licensee at his or her last known address at least five days before the date of hearing. Hearings shall be held by the commissioner or his or her representative, and the applicant, certificate holder or licensee may appear in person or may be represented by an agent. After such hearing, the commissioner shall render a decision in writing.

§ 460. Seizure, impounding, destruction or disposition of explosives.

1. The commissioner is hereby authorized and empowered, without application to any court, to seize and impound any explosives found within this state, except in cities having a population of more than one million inhabitants, which are in apparent violation of any of the provisions of this article, regulations promulgated hereunder or laws or regulations of the federal government, or which have been abandoned or lost, or where the commissioner has reason to believe that public safety is endangered by such explosives.

Such explosives may be removed and transported by the commissioner and stored in magazines provided or obtained for that purpose by the state or by the commissioner.

2. The owner of such explosives may, within five days of such seizure, make written demand upon the commissioner for a hearing. Upon such demand, the commissioner shall give the owner written notice of the time and place of such hearing to be held not less than ten days thereafter.

3. Where no hearing is demanded within the time herein prescribed or where, after hearing, the commissioner finds that there has been a violation of the provisions of this article, regulations promulgated hereunder or laws or regulations of the federal government, or that public safety is endangered, the commissioner may destroy or order the destruction of such explosives without liability, or direct such other disposition of the explosives. If the commissioner finds there has been no such violation and that public safety has not been endangered, such explosives shall be returned to the owner thereof.

4. Where such explosives have been abandoned or lost, and no claimant has appeared within thirty days, demanded the return of the explosives and proved, to the satisfaction of the commissioner, the claimant's title to and right of possession of such explosives, the commissioner may destroy or direct the destruction thereof, or direct such other disposition thereof as is deemed proper.

5. Any provision herein to the contrary notwithstanding, where, in the opinion of the commissioner, the manufacture, condition, storage, packing or location of explosives is such that its continued existence or transportation is a danger to public safety, the commissioner may, without hearing and without liability therefor to the owner thereof, seize and destroy or direct the seizure and destruction of such explosives.

§ 461. Record and notice of sales, deliveries or gifts.

1. Every person selling, delivering, giving away or otherwise transferring or disposing of explosives shall keep at his or her principal office or place of business within the state, a record of the transaction, including the name or type and quantity of the explosive, such identification of the explosive as may be required by the regulations promulgated pursuant to this article, the date of each sale, delivery, gift, transfer or disposition, the name and business address of the purchaser, donee, recipient or person to whom delivered, the number of the license, if such license is required by section four hundred fifty-eight of this article, and the name and address of the person taking the explosives away. A report of all such transactions, when requested, shall be submitted to the commissioner. Such record shall be open to inspection by the commissioner or by federal, state and local enforcement officers at all times. No person shall have in his or her possession any explosives unless he or she has a bill of sale or other evidence of title thereto.

2. Any provision in this article to the contrary notwithstanding, no person in a city having more than one million inhabitants shall ship or transport or cause to be shipped or transported explosives from such city to any other place within the state, unless such person shall, at least twenty-four hours prior to such shipment, transmit to the commissioner a statement in writing giving the weight, name or brand and type of explosives, the name and address of the person to whom such explosives are to be sold, shipped, transported or delivered and the date thereof. Upon receipt of such statement, the commissioner shall provide immediate written notice of such shipment or transportation of explosives to the mayor of a city having more than one million inhabitants, or to the designee of the mayor. No person shall make any such shipment except to a holder of a license issued hereunder.

3. No person within the state shall purchase, receive or accept delivery of explosives from any place outside the state, and no person shall bring explosives into the state from any place outside the state, unless, he or she is in possession of a valid license issued by the commissioner. The licensee receiving the explosives shall maintain a record including the weight, name or brand and type of the explosives, the name and address of the shipper and the date of shipment, for a period of three years from the date of receipt or two years from the date of final disposition of the explosives whichever occurs last.

§ 462. Rules and regulations.

The commissioner may make rules supplemental to this article as deemed necessary or desirable to assure the public safety as well as to provide reasonable and adequate protection of the lives, health and safety of persons employed in the manufacture, storage, handling, use, purchase, sale, disposition and ownership of explosives. The commissioner may prescribe such regulations as are deemed necessary and proper for the administration of this article. The commissioner shall by rule adopt the codes, standards and recommended practices promulgated by the most recent edition of National Fire Protection Association, 1123 and 1126 Standards on Fireworks Displays and Use of Pyrotechnics Before a Proximate Audience, in accordance with the provisions of this article and article twenty-eight-D of the general business law.

§ 463. Review.

All questions of fact arising under this article shall be decided by the commissioner and there shall be no appeal from such decision on any such question of fact. Upon the entry of an order issued under sections four hundred fifty-nine and four hundred sixty of this article, any party aggrieved thereby may commence a proceeding for review thereof pursuant to article seventy-eight of the civil practice law and rules within thirty days from the notice of the filing of the said order in the office of the commissioner. Said proceeding shall be commenced directly in the appellate division of the supreme court. Nothing in this section shall in any way limit, qualify or prevent the commissioner from destroying explosives as provided under section four hundred sixty of this article.

§ 464. Costs and penalties.

1. If the commissioner directs the storage, destruction or other disposition of explosives pursuant to the provisions of section four hundred fifty-nine or four hundred sixty of this article, the commissioner may issue an order which shall set forth the costs of such storage, transportation, handling, destruction or other disposition and assess such costs against the owner of such explosives, which shall be in addition to any other penalties imposed.

2. (a) If the commissioner determines that any person has violated any provision of this article, section four hundred eighty-two of the general business law relating to blasters and pyrotechnicians, or any rule or regulation promulgated thereunder, the commissioner may issue an order which shall describe the nature of the violation and assess such person a civil penalty of up to ten thousand dollars per violation per day until the violation is corrected. The penalty authorized pursuant to this paragraph shall be paid to the commissioner for deposit in the treasury of the state. In assessing the amount of the penalty, the commissioner shall give due consideration to the size of the person's business, the good faith effort of the person, the gravity of the violation, and the history of previous violations.

(b) Whenever the commissioner issues an order under this section against a person, the commissioner shall serve notice of the order by registered mail upon the person at his or her last known address. Within five days of service of the order, the person may make written demand upon the commissioner for a hearing whereupon the commissioner shall give such person written notice of the time and place of the hearing to be held not less than ten days thereafter.

(c) Upon the entry of an order issued following a hearing under this section, any party aggrieved by an order issued under this subdivision or subdivision one of this section may commence a proceeding for review thereof pursuant to article seventy-eight of the civil practice law and rules within thirty days from the notice of the filing of the said order in the office of the commissioner. Said proceeding shall be commenced directly in the Appellate Division of the Supreme Court.

(d) Provided that no proceeding for judicial review as provided for in this section shall then be pending and the time for initiation of such proceeding shall have expired, the commissioner may file with the county clerk of the county where the person resides or has a place of business, the order of the commissioner, containing the amount of the civil penalty. The filing of such order or decision shall have the full force and effect of a judgment duly docketed in the office of such clerk, the order or decision may be enforced by and in the name of the commissioner in the same manner, and with like effect, as that prescribed by the civil practice law and rules for the enforcement of a money judgment.

(e) A civil penalty provided for in this subdivision shall be in addition to and may be imposed concurrently with any other penalty or remedy provided for in this article.

3. Any person violating any provision of this article, or any rule or regulation made hereunder, shall be guilty of a class E felony; provided, however, that any person who possesses an explosive without being duly licensed or otherwise authorized to do so under the provisions of this article shall be guilty of a class D felony. Whenever, as a result of a plea bargaining agreement the charge is reduced to a lesser offense, such offense may, in addition to any term of imprisonment prescribed by such offense, be punishable by a fine not to exceed twenty-five hundred dollars.

§ 464-a. Local laws.

Except with regard to cities having a population of over one million, the provisions of this article and the rules adopted pursuant thereto shall be the minimum standard required and shall supersede any special law or local ordinance inconsistent therewith, and no local ordinance inconsistent therewith shall be adopted, but nothing herein contained shall prevent the enactment by local law or ordinance of additional requirements and restrictions.

§ 465. Separability.

If any provision of this article or the application thereof to any person or circumstances is held invalid, the remainder of the article and the application of such provision to other persons or circumstances shall not be affected thereby.

12 NYCRR 39.

Possession, Handling, Storage and Transportation of Explosives

39.1 Application.....17

39.2 Definitions. 17

39.3 Responsibility to observe rules and regulations. 20

39.4 Licenses required..... 20

39.5 [Repealed and reserved for future use]..... 20

39.6 General provisions for the storage and handling of explosives. 20

39.7 [Repealed and reserved for future use]..... 25

39.8 Construction and maintenance of magazines. 25

39.9 Location of magazines. 33

Table 1 High Explosives Quantity and Distance Table 34

Table 2 Low Explosives Quantity and Distance Table 37

Table 3 Ammonium Nitrate and Blasting Agents Quantity and Distance Table..... 38

39.10 General provisions for the possession, handling, storage and
transportation of blasting agents. 40

39.11 Transportation of explosives. 41

39.12 Special provisions relating to black powder. 45

39.12 Special provisions relating to black powder. 46

39.13 Severability.....48

39.1 Application.

(a) This Part (rule) shall apply throughout the State of New York to any person who manufactures, deals in, sells, gives or disposes, purchases, owns, possesses, stores, transports or uses explosives except within the territorial boundaries of cities having more than 1,000,000 inhabitants. This Part (rule) shall not supersede but shall apply in conjunction with other Industrial Code Parts (rules) regulating particular industries, trades, occupations or processes which require the use of explosives.

(b) This Part (rule) shall not apply to the following:

(1) The armed forces of the United States, the National Guard, the State Guard or to duly constituted police and firefighting forces of the State and its civil and political subdivisions.

(2) Explosives being transported in compliance with Federal law or regulations.

(3) The authorized use (public display) of pyrotechnics, commonly known as fireworks, including but not limited to ground displays, aerial displays, aerial bombs and other signaling devices such as flares.

(4) Explosives known as pest control devices which contain 20 grains or less of explosive materials and which are used in agricultural operations for crop protection.

(c) Manufacturers of pyrotechnics as defined by this Part (rule) shall continue to be subject to the provisions of Industrial Code Part (rule) 37, relating to Manufacturing, Handling and Storage of Military Pyrotechnics, in addition to the requirements of this Part (rule).

(d) Explosives shall not be detonated in violation of the requirements of subdivisions 1 and 2 of section 322-a of the General Business Law of New York State relating to operations carried out in the vicinity of public utility facilities.

39.2 Definitions.

As used in this Part (rule) the following terms mean:

(a) Acceptable. Satisfactory to the commissioner as complying with the provisions of this Part (rule).

(b) Approved. In respect to a device or material; in compliance with a subsisting resolution of approval adopted by the board; in respect to action by the board; made the subject of a resolution of approval.

(c) Blaster. A designated person in charge of blasting operations who is at least 21 years of age; who has training, knowledge and experience in the transportation, storage, handling, use and destruction of explosives; who is in adequate physical condition to

perform the work of blasting; who is not addicted to the use of narcotics, intoxicants or similar types of drugs; and who is able to understand and give written and verbal orders in the English language.

(d) Blasting agent. Any material or mixture consisting of a fuel and an oxidizer intended for blasting, in which none of the ingredients are classified as an explosive, and which, when mixed for use or shipment, cannot be detonated by a number eight test blasting cap while unconfined. A number eight test blasting cap is one containing two grams of a mixture of 80 percent mercury fulminate and 20 percent potassium chlorate, or any blasting cap of equivalent strength.

(e) Board. The Board of Standards and Appeals of the State of New York.

(f) Certificate of competence. A document issued to a blaster by the commissioner in accordance with the provisions of this Part (rule).

(g) Commissioner. The Industrial Commissioner of the State of New York.

(h) Department. The Department of Labor of the State of New York.

(i) Designated person. A person selected and directed by an employer or by the employer's authorized agent to perform a specific task or duty.

(j) Detonators. Fuse blasting caps, instantaneous and delay electric blasting caps, detonator cord, nonelectric blasting devices and detonating cord connectors.

(k) Explosives. The term explosives is defined in subdivision 1 of section 451 of the Labor Law, but shall not be deemed to include any of the following:

- (1) Matches that will not ignite spontaneously when subjected for eight consecutive hours to a temperature of 200 degrees Fahrenheit in a properly conducted laboratory test.
- (2) Firecrackers, the explosive content of which does not exceed 12 grains each in weight when packed in strong, tight, sparkproof, wooden barrels or wooden or fibreboard boxes.
- (3) Fixed ammunition for small arms, such as is used in pistols, revolvers and rifles, which do not exceed 0.50 inches caliber, in shotguns and similar firearms or in machine guns with nonexplosive bullets, when packed in pasteboard or other similar inside boxes in strong wooden or fibreboard outside boxes or metal containers.
- (4) Primers for small arms when packed in cellular inside packages with partitions separating the layers and columns of the primers in strong, tight outside wooden boxes.

(5) Safety fuse, consisting of a core of black powder overspun with yarns, tapes and/or waterproofing compound, and packed in outside fibreboard boxes, wooden boxes, wooden barrels, bales or metal containers.

(6) Any of the above when in their completed form and temporarily loosely stored in vented containers at the place of their manufacture prior to packaging or after removal from their original containers or packages prior to lawful use.

(l) High explosives. Explosive materials which can be caused to detonate by means of a blasting cap when unconfined as, for example, dynamite.

(m) License. A document issued by the commissioner in accordance with the provisions of section 458 of the Labor Law and of this Part (rule).

(n) Low explosives. Explosive materials which can be caused to deflagrate when confined as, for example, black powder.

(o) Permanent magazine. A nontransportable magazine used for permanent storage of explosives.

(p) Portable magazine. A transportable magazine used for temporary storage of needed explosives at a job site.

(q) Pyrotechnics. Any combustible or explosive compositions of manufactured articles designed and prepared for the purpose of producing audible or visible effects which are commonly referred to as fireworks, including signaling devices such as flares, fuses and torpedoes.

(r) Sporting use of black powder. The use of black powder in competitive shooting matches, individual target shooting practice and in hunting.

(s) Storage magazine. Facilities for the storage of explosives of which there shall be five types as follows:

(1) Type 1. Permanent facilities for the storage of high explosives. Other classes of explosives may also be stored therein.

(2) Type 2. Portable indoor or outdoor facilities for the storage of high explosives. Other classes of explosives may also be stored therein.

(3) Type 3. Portable outdoor facilities for the temporary storage of high explosives while attended.

(4) Type 4. Facilities for the storage of low explosives. Blasting agents may also be stored therein.

(5) Type 5. Facilities for the storage of blasting agents.

39.3 Responsibility to observe rules and regulations.

(a) General. Every person shall comply with all laws, rules and regulations affecting his conduct whenever he is in an area where explosives are possessed, handled, stored, used or transported. No employer who holds a valid license in accordance with the provisions of subdivision 1 of section 458 of the Labor Law shall permit any but designated, competent employees to possess or transport explosives under such license. No employees shall be designated or permitted to use or handle such explosives in blasting operations within the scope of their duties on behalf of the licensed employer unless such work is performed under the supervision of a certified blaster. Such supervision by a blaster shall not be required for any person using a jet tapper, a jet perforator or similar device utilizing not more than three ounces of explosives in manufacturing or drilling operations.

(b) Responsibility of employer. Where explosives are manufactured, stored, transported, handled or used, the employer shall use every precaution to provide for the safety of all persons and it shall be the duty of such employer to carry out the provisions of article 16 of the Labor Law and of this Part (rule) by providing the required safety devices, types of construction, materials, methods and procedures.

(c) Responsibility of employees. Every employee who handles, purchases, owns, possesses, transports or uses explosives shall comply with all pertinent provisions of article 16 of the Labor Law and of this Part (rule) which concern or affect his conduct and shall use all safety devices provided for his use and comply with all required methods and procedures.

39.4 Licenses required.

No person shall manufacture explosives for, nor sell, give or dispose of explosives to, any other person unless such other person possesses a valid license issued pursuant to section 458 of the Labor Law to purchase, own, possess, transport or use explosives and such other person displays such license for recording purposes.

39.5 [Repealed and reserved for future use]

39.6 General provisions for the storage and handling of explosives.

(a) Explosive material storage.

(1) All explosive materials shall be kept in storage facilities which comply with the provisions of this Part (rule) unless such explosive materials are:

(i) in the process of manufacture;

(ii) being physically handled in the operating process of a licensee or employer;

(iii) being used in blasting operations; or

(iv) being transported to a place of storage or use by a licensee, a certified blaster or other designated person who has lawfully acquired such explosive materials.

(2) Except as otherwise provided by this Part (rule), no indoor facility for the storage of explosives shall be located in a residence or dwelling.

(b) Magazine locking. All magazines and all enclosures used for the storage of explosives shall be kept locked at all times except when opened by the employer, his authorized agent, the certified blaster or other designated person under the supervision of the blaster for the purpose of placing explosives therein, removing explosives therefrom, inspection or inventory of the contents of such magazines or enclosures. Locking systems installed in magazines shall comply with the requirements of this Part (rule).

(c) Access to explosives. No person unless duly authorized by the owner of the explosives or a certified blaster shall have access to or enter any magazine or explosives storage enclosure. Detonators or other explosives when removed from magazines shall not be left unguarded where children or other unauthorized persons may have access to them.

(d) Magazine inventory and inspection.

(1) Inventory.

(i) A running inventory of each magazine containing explosives shall be made at the end of each day during which blasting operations are conducted or whenever the magazine is opened for any purpose.

Exception:

Such daily inventory is not required for any magazine opened only for the purpose of an inspection by the commissioner.

(ii) Such inventory records shall list the total amount and kinds of explosives in each magazine and shall contain entries for each deposit and withdrawal of explosives.

(iii) Such inventory records shall be kept in duplicate with one copy located in the magazine and the other located in the office of the employer available for examination by the commissioner.

(iv) If any such daily inventory discloses missing explosives and such discrepancy has been verified by a physical inventory of the magazine performed by the employer, the New York State Police shall be notified

immediately. The commissioner shall be notified in writing of such discrepancy within 24 hours.

(2) Security inspection. Each magazine containing explosives shall be inspected at intervals not greater than three days. Such inspection shall include the magazine exterior and interior with special attention to door and locking mechanisms. Any evidence of unauthorized entry or attempted unauthorized entry or missing explosives shall be reported immediately to the New York State Police and written notification shall be forwarded to the commissioner within 24 hours.

(e) Smoking and open flames. No person shall smoke or carry open flames, lighted objects or other spark-producing devices in or within 50 feet of any magazine containing explosives nor within 50 feet of any other explosives. This subdivision shall not be construed to prohibit the lighting of fuses for the purpose of blasting.

(f) Marking explosives.

(1) Explosive containers. No person shall own, possess, store, sell or use, or authorize or permit the use of explosives unless the original package, case or container is clearly marked so as to designate the kind and grade, the manufacturer and the location, date and shift of manufacture of such explosives. The date of manufacture and shift of manufacture may be in code, provided that the key to such code shall be filed with the commissioner. All cases containing explosives for underground use shall be clearly marked with the fume classification of its contents. No explosives, other than those in fume classes 1, 2 or 3 shall be used in confined spaces.

Exception:

Broken lots of explosives may be sold if details required by this Part (rule) are noted on the bills of sale.

(2) Individual explosives.

Each individual stick, cartridge, bag or other package of dynamite, booster, blasting agent or water gel; each cannister or keg of black or smokeless powder; and the smallest cartons or boxes of detonators, detonating cord or fuse; manufactured after April 1, 1972 and delivered into New York State for use or resale, shall be marked with the identity of the manufacturer and the location, date and shift of manufacture. Such markings shall be in the English language and shall be legible. Such markings may be in code, providing the key to such code is filed with the commissioner.

(g) Bills of sale required. Every person who sells any explosives shall provide every purchaser with a bill of sale for each such transaction. Every such bill of sale shall contain the purchaser's license number and any other information that the commissioner may require.

(h) Detonator requirements. No detonator shall be sold or used unless its initiating power, as measured in the TNT-iron oxide insensitive powder test, appended hereto [see Appendix A-11, infra] and made part hereof, is at least equal to a detonator containing one gram of a mixture of 80 percent mercury fulminate and 20 percent potassium chlorate.

(i) Destroying explosives. Explosives which have deteriorated, have been damaged so as to be unfit for use or are unwanted shall be destroyed in a safe manner only by a certified blaster, a person duly licensed pursuant to section 458 of the Labor Law or by the commissioner. This provision shall not prohibit reprocessing of explosives by the manufacturer thereof.

(j) Magazines for detonators. Detonators shall be stored in separate magazines and no other explosives, materials or tools except safety fuse, wooden wedges and wooden or fibre mallets may be stored in such magazines.

(k) Magazines for all other explosives. All explosives, other than detonators, shall be stored in separate magazines devoted exclusively to such explosives in accordance with the provisions of this Part (rule).

(l) Storage of blasting equipment. All tamping poles and other tools, as well as electrical and mechanical equipment used in connection with blasting, shall be separately stored in a compartment or enclosure devoted exclusively to such purpose at all times except when in use.

Exception:

Wooden wedges and wooden and fibre mallets stored in detonator magazines.

(m) Smokeless powder.

(1) Storage by individuals.

Smokeless powder for the reloading of shells by sportsmen for use in sporting rifles, shotguns, pistols or revolvers in an amount not in excess of 15 pounds and in the original containers may be kept in a building or other structure without storing such powder in a magazine.

(2) Storage by mercantile establishments.

Not more than 100 pounds of smokeless powder in original containers shall be stored in a mercantile establishment. The storage of smokeless powder in any mercantile establishment having a gross floor area in excess of 10,000 square feet is prohibited. The storage of smokeless powder in mercantile establishments shall be subject to the following conditions:

(i) Not more than two 50-pound capacity wooden storage boxes containing smokeless powder shall be located within such an establishment and such boxes shall be placed not more than five feet apart. Each such storage box

shall be located on the floor nearest the ground level and within 10 feet of an outside exit.

(ii) Such smokeless powder storage boxes shall be constructed of lumber having a thickness of at least one inch and shall be provided with hinged covers. Such storage boxes shall be painted with red, bright orange or aluminum paint. The words "EXPLOSIVES— SMOKELESS POWDER" shall be plainly lettered on a surface of each such box which is clearly visible to any person approaching the box. Such lettering shall be in contrasting colors and shall be not less than two inches in height. Each such box shall be provided with adequate handles to facilitate rapid removal from the establishment and each box shall be of such size as to be readily passable through the existing exits.

(iii) Individual factory-sealed containers of smokeless powder which are stored in such boxes shall have a maximum weight of 10 pounds.

(iv) Each such storage box shall be so specifically located as to be readily accessible for rapid removal from the premises. Such specific locations shall be on file with both the police and firefighting authorities of the locality in which the establishment is situated.

(v) Each such storage box shall be kept locked except when deposits or withdrawals of smokeless powder containers are being made.

(vi) The owner shall obtain a certificate for each magazine where smokeless powder is stored as required by section 453 of the Labor Law.

(n) Protection of magazines. All magazines shall be so located or so protected as to prevent accidental impact from vehicles or falling objects.

(o) Storage of explosives by governmental agencies. Civil agencies of the United States, New York State and its political and civil subdivisions, except the police and fire departments thereof, whose employees in the course of their duties are required to purchase or possess explosives, shall store such explosives in accordance with the requirements of the Labor Law and of this Part (rule).

(p) Return of explosives to magazines. Every person who holds a valid license issued by the commissioner pursuant to section 458 of the Labor Law and every certified blaster controlling the handling and use of explosives shall be responsible for the return of all unused explosives or ingredients thereof to the magazines and shall prevent any explosives or ingredients thereof from being taken to any place not necessary to their use.

(q) Containers for explosives. No person shall possess, store or cause to be stored explosives unless such explosives are completely enclosed or encased in tight metal, wooden, plastic or fibreboard containers. Such containers shall be piled top side up so as to eliminate the danger of falling. Containers of liquid nitroglycerin shall be vented as required by subdivision (t) of this section. No person shall permit any explosives or any

grains or particles thereof to remain on the outside of or about any container. Corresponding grades and brands of explosives shall be stored together in such manner that the brands and grade marks are easily visible for inspection and inventory purposes. When any kind of explosive is removed from a magazine for use, the oldest explosive of that particular kind shall be removed first.

(r) Opening packages or containers of explosives. No person shall open packages or containers of explosives at any time within 50 feet of any magazine. In opening packages or containers of explosives, no tools except wooden wedges and either wooden, fibre or rubber mallets shall be used.

(s) Containers for storage of liquid nitroglycerin. Loaded containers of liquid nitroglycerin may be placed on shelves not more than 54 inches above the floor. Such containers shall not be stored more than one tier high.

(t) Venting containers of liquid nitroglycerin. The closure of any liquid nitroglycerin container stored in a magazine shall be loosened to permit venting. Such closure shall be securely tightened before the container is removed from the magazine.

(u) Inspection of liquid nitroglycerin containers. In addition to the inspections of explosives magazines required by this Part (rule), all liquid nitroglycerin containers shall be inspected at least once each week for leakage, rust or warp. Upon discovery of any such defect, the container shall be destroyed.

39.7 [Repealed and reserved for future use]

39.8 Construction and maintenance of magazines.

(a) General.

(1) Smokeless and black powder. Magazines for the storage of explosives shall be constructed and maintained in accordance with the provisions of this section except for the prescribed limited quantities of smokeless powder and black powder which shall be stored in accordance with the special provisions of sections 39.6 and 39.12 of this Part (rule).

(2) Lighting of magazines. Artificial lighting of the area surrounding a magazine shall be by floodlights. No lights shall be permitted in a magazine except battery-activated electric flashlights or electric lanterns, enclosed in rubber or other insulating covers.

(3) Maintenance of magazines. Magazines shall be maintained clean and dry at all times. No tools shall be kept in magazines except for wooden or fibre mallets and wedges and wooden or nonferrous conveyors. The ground around every magazine

for a distance of at least 25 feet in every direction shall be kept clean of debris, dry leaves, dry grass and other flammable material.

(4) Ventilation screening. All ventilation openings in any magazine shall be screened in a manner acceptable to the commissioner to prevent the entrance of sparks.

(5) Magazine warning signs. Signs with the words, "EXPLOSIVES—KEEP OFF" legibly printed thereon in letters not less than six inches in height shall be posted by all licensees or certificate holders in the area of every permanent magazine, on the approaches thereto. Such signs shall be so placed as to warn any person approaching the magazine of the presence of explosives but shall not be so placed as to direct general public attention to the location of the magazine. No sign shall be placed on or so located with respect to a permanent magazine that a bullet passing directly through the face of the sign will strike the magazine. Portable magazines shall be painted vermilion or aluminum and shall have the word "EXPLOSIVES" printed on the top surface thereof in letters at least three inches in height.

(6) Discharge of firearms. No person shall discharge firearms of any kind within 500 feet of any magazine or explosives factory or at or against any such magazine or building or at or against any sign or placard located in such area.

(b) Types of storage facilities. For purposes of this Part (rule), there shall be five types of storage magazines. These types, together with the classes of explosive materials which shall be stored therein, are as follows:

(1) Type 1 storage magazines. Permanent facilities for the storage of high explosives. Other classes may also be stored therein.

(2) Type 2 storage magazines. Portable indoor and outdoor facilities for the storage of high explosives. Other classes may also be stored therein.

(3) Type 3 storage magazines. Portable outdoor facilities for the temporary storage of high explosives while attended. Other classes may also be stored therein.

(4) Type 4 storage magazines. Facilities for the storage of low explosives. Blasting agents may also be stored therein.

(5) Type 5 storage magazines. Facilities for the storage of blasting agents.

(c) Construction of type 1 storage magazines. A type 1 storage facility shall be a permanent structure: a building; an igloo or army-type structure; a tunnel; or a dugout. Such storage facility shall be bullet-resistant, fire-resistant, weather-resistant, theft-resistant and well ventilated.

(1) Buildings. All building-type storage magazines shall be constructed of masonry, wood, metal or a combination of these materials and shall have no openings except

for entrance and ventilation. The ground around such storage magazines shall slope away for drainage.

(i) Masonry wall construction. Masonry wall construction shall consist of brick, concrete, tile, cement block or cinder block and shall be not less than six inches in thickness. Hollow masonry units used in such construction shall have all hollow spaces filled with well-tamped coarse dry sand or weak concrete (a mixture of one part cement and eight parts of sand with enough water to dampen the mixture while tamping in place).

(ii) Fabricated metal wall construction. Metal wall construction shall consist of sectional sheets of steel or aluminum not less than No. 14 gage securely fastened to a metal framework. Such metal wall construction shall be either lined inside with brick, solid cement blocks, hardwood not less than four inches in thickness or shall have at least a six-inch sand fill between interior and exterior walls.

(iii) Wood frame wall construction. The exterior of outer wood walls shall be covered with iron or aluminum not less than No. 26 gage. An inner wall shall be constructed so as to provide a space of not less than six inches between the outer and inner walls, which space shall be filled with coarse dry sand and weak concrete.

(iv) Floors. Floors shall be constructed of, or covered with, any suitable flooring material except steel or other ferrous metal and shall be strong enough to bear the weight of the maximum quantity to be stored.

(v) Foundations. Foundations shall be constructed of brick, concrete, cement block, stone or wood posts. If piers or posts are used in lieu of a continuous foundation, the space under the building shall be enclosed with metal.

(vi) Roofs. Roofs shall be constructed of noncombustible material, shall be watertight and shall be adequately supported for dead load, wind load and snow load, where applicable.

(vii) Bullet-resistant ceilings or roofs. Where it is possible, because of the general topography of the adjacent area and not because of the presence of adjacent trees, structures and earth barricades, for a bullet to be fired directly through the roof and into the storage magazine at such an angle that the bullet would strike a point below the top of the inner walls, the ceilings and roofs of such storage magazines shall be protected by one of the following methods:

(a) A sand tray located at the tops of the inner walls covering the entire ceiling area, except that necessary for ventilation, lined with a layer of building paper and filled with not less than four inches of coarse dry sand.

(b) A fabricated roof consisting of a combination of steel and hardwood equivalent to four inches of hardwood (each one-sixteenth inch thickness of steel will replace one inch of hardwood).

(viii) Doors. The doors of such buildings shall be constructed of not less than No. 14 gage metal lined with not less than four inches of hardwood or shall be constructed of not less than three-eighths inch thick steel plate lined with not less than two and five-eighths inches of hardwood. Hinges and hasps shall be attached to the doors by welding, riveting or bolting with the nuts located on the inside of the doors. Such hinges and hasps shall be installed in such a manner that they cannot be removed when the doors are closed and locked.

(ix) Locks. Each door shall be equipped with two mortise locks; or with two padlocks fastened in separate hasps and staples; or with a combination of mortise lock and padlock; or with a mortise lock that requires two keys to open; or with a three-point lock. Each padlock shall have a case-hardened shackle and at least five tumblers and shall be protected with a cap constructed of at least No. 14 gage steel so as to prevent sawing or levering on the lock or hasp.

(x) Ventilation. Such magazines shall be adequately ventilated with offset openings to prevent dampness and heating of stored explosive materials.

(xi) Exposed metal. No ferrous metal shall be exposed to contact with the stored explosive materials. All ferrous metal nails in the floors and side walls exposed to contact with explosive materials shall be blind nailed, countersunk or covered.

(2) Igloos, army-type structures, tunnels and dugouts. Igloo, army-type tunnel and dugout storage magazines shall be constructed of reinforced concrete, masonry, metal or a combination of these materials. Each such storage magazine shall have an earthmound covering of not less than 24 inches on the top, sides and rear. Storage magazines of this type shall also be constructed in conformity with the requirements of subparagraph (iv) and subparagraphs (viii) through (xi) of paragraph (1) of this subdivision.

(d) Construction of type 2 storage magazines.

(1) General. A type 2 storage magazine shall be a box, a trailer, a semitrailer or other facility. Every type 2 storage magazine shall be bullet-resistant, fire-resistant, weather-resistant, theft-resistant and well ventilated.

(2) Doors. The doors of type 2 storage magazines shall be constructed of one-quarter inch plate steel lined with two inches of hardwood and shall have hinges and hasps attached by welding, riveting or bolting with the nuts located on the inside of the doors. Such hinges and hasps shall be so installed that they cannot be removed when the doors are closed and locked.

(3) Locks. Each door of every type 2 storage magazine shall be equipped with either two mortise locks; or with two padlocks fastened in separate hasps and staples; or with a combination of a mortise lock and a padlock; or with a mortise lock that requires two keys to open; or with a three-point lock. Each padlock shall have a case-hardened shackle and at least five tumblers and shall be protected with a cap constructed of at least No. 14 gage steel so as to prevent sawing or levering action on the lock or hasp.

(4) Indoor storage magazines. No indoor storage magazine for the storage of high explosives shall be located in a residence or dwelling. When located in a warehouse, wholesale or retail establishment, such storage magazines shall be provided with substantial wheels or casters to facilitate removal therefrom. No more than two indoor storage magazines shall be kept in any one building providing one such magazine is used only for the storage of blasting caps, squibs or similar items while the other magazine is used for the storage of high explosives. Each storage magazine shall be located on the floor nearest the ground level and within 10 feet of an outside exit. Any two such storage magazines located within one building shall be separated by a distance of not less than 10 feet. No such indoor storage magazine shall contain a quantity of high explosives in excess of 50 pounds or in excess of 5,000 blasting caps. Such storage magazines shall be of wood or metal construction, as follows:

(i) Wood construction. Wood indoor storage magazines shall have sides, bottoms and covers or doors constructed of hardwood at least two inches in thickness and shall be well braced at the corners. Such hardwood storage magazines shall be covered with sheet metal of not less than No. 20 gage. No nails shall be exposed to the interior of such magazines.

(ii) Metal construction. Metal indoor storage magazines shall have sides, bottoms and covers or doors constructed of No. 12 gage metal and shall provide protection of the explosive materials from contact with steel or other ferrous metals. The edges of metal covers shall overlap the sides of the magazines by at least one inch.

(5) Outdoor storage magazines. Outdoor type 2 storage magazines shall be supported in such a manner as to prevent their direct contact with the ground. Such magazines less than one cubic yard in size shall be securely fastened to a fixed object. The sides, tops and covers or doors shall be constructed of metal lined with at least four inches of hardwood or equivalent bullet-resistant material. The floors of such magazines shall be covered with any suitable material except steel or other ferrous metals. Such magazines with top openings shall be provided with lids which overlap the sides by at least one inch when in the closed position. The ground around any such storage magazine shall slope away for drainage.

(6) Vehicular storage magazines.

(i) Walls. The walls of vehicular type 2 storage magazines shall be constructed of not less than No. 20 gage metal. Such walls shall be lined on the inside with brick, solid cement blocks or hardwood not less than four inches in thickness or shall have a six-inch space filled with coarse dry sand and an interior wall. Interior walls shall be installed in such magazines to prevent containers of explosive materials from coming into contact with masonry, steel or other ferrous metals.

(ii) Roofs. The roofs of vehicular type 2 storage magazines shall be constructed of not less than No. 20 gage metal. When required to be bullet-resistant, such roofs shall be protected with not less than four inches of coarse dry sand or hardwood not less than four inches in thickness.

(iii) Doors. The doors of such vehicular storage magazines shall be constructed of metal lined with hardwood not less than four inches in thickness.

(iv) Floors. The floors of such magazines shall be constructed of, or covered with, any suitable flooring material except steel or other ferrous metals and shall be strong enough to bear the weight of the maximum quantity to be stored.

(v) Ventilation. Such magazines shall be adequately ventilated with offset openings to prevent dampness and heating of stored explosive materials.

(vi) Locks, hasps and hinges. Every door or opening of any vehicular type 2 storage magazine shall be locked with a steel case-hardened padlock which has at least five tumblers and at least a seven-sixteenths inch diameter shackle. Such padlocks need not be protected by steel caps. The hinges and hasps of such magazines shall be securely fastened to the magazines and all locking hardware shall be secured rigidly and directly to the door frames.

(vii) Unattended vehicles. When unattended, vehicular storage magazines shall have wheels removed or shall be otherwise effectively immobilized by kingpin locking devices or other methods acceptable to the commissioner.

(7) Cap boxes. Storage magazines for blasting caps in quantities exceeding 100 shall be constructed in accordance with the requirements for type 2 indoor storage magazines in paragraph (4) of this subdivision. Storage magazines for blasting caps in quantities of 100 or less shall have the sides, bottoms and covers constructed of No. 12 gage metal. Protection shall be provided to prevent explosive materials from contacting steel or any other ferrous metals. Hinges and hasps shall be attached to such magazines by welding. A single five-tumbler proof lock shall be sufficient for locking purposes.

(e) Construction of type 3 storage magazines. A type 3 storage magazine shall be a “day box” or other portable magazine. Type 3 storage magazines shall be constructed in the same manner prescribed for type 2 outdoor storage magazines in paragraph (5) of subdivision (d) of this section, except that such magazines may be less than one cubic yard in size. Such magazines shall be bullet-resistant, fire-resistant, weather-resistant, theft-resistant and well ventilated. The ground around such storage magazines shall slope away for drainage. No explosive materials contained in such magazines shall be left unattended. The explosive materials contained therein shall be removed to type 1 or type 2 storage magazines for unattended storage. Each such storage magazine shall be locked with a steel case-hardened padlock having at least five tumblers and at least a seven-sixteenths inch diameter shackle. The hinges and hasps shall be securely fastened to the magazines in such manner that they cannot be removed when the magazines are closed and locked.

(f) Construction of type 4 storage magazines. A type 4 storage magazine may be a building, an igloo, an army-type structure, a tunnel, a dugout, a box, a trailer or semitrailer or other mobile magazine. Such magazines shall be fire-resistant, weather-resistant and theft-resistant.

(1) General. Type 4 storage magazines shall be constructed of masonry, metal-covered wood, fabricated metal or a combination of these materials. Protection shall be provided in the interior of such magazines to prevent explosive materials from contacting steel or other ferrous metals.

(2) Doors. The doors of type 4 storage magazines shall be constructed of plate steel at least one-quarter inch thick and lined with hardwood at least two inches thick. Hinges and hasps shall be attached to such doors by welding, riveting or bolting with nuts located on the inside of the doors. The hinges and hasps shall be so installed that they cannot be removed when the doors are closed and locked.

(3) Locks. Each door of such storage magazine shall be equipped with two mortise locks; or with two padlocks fastened in separate hasps and staples; or with a combination of mortise lock and padlock; or with a mortise lock that requires two keys to open; or with a three-point lock. Locks shall be five-tumbler proof and all padlocks shall be protected with one-quarter inch steel caps constructed so as to prevent sawing or levering action on the locks or hasps.

(4) Outdoor storage magazines. The ground around such storage magazines shall slope away for drainage. When unattended, vehicular type 4 storage magazines shall have wheels removed or shall be otherwise effectively immobilized by kingpin locking devices or other methods acceptable to the commissioner.

(5) Indoor storage magazines. No indoor magazine for the storage of low explosives shall be located in a residence or dwelling except as provided in this Part (rule) for the storage of five pounds or less of black powder or of not more than 15 pounds of smokeless powder. When located in warehouses, wholesale or retail establishments, such storage magazines shall be provided with substantial wheels

or casters to facilitate removal therefrom. No more than one indoor storage magazine shall be kept in any one building. Each such indoor storage magazine shall be located on the floor nearest the ground level and within 10 feet of an outside exit. No indoor storage magazine shall contain a quantity of low explosives in excess of 50 pounds.

(g) Construction of type 5 storage magazines. A type 5 storage magazine may be a building, an igloo, an army-type structure, a tunnel, a dugout, a bin, a box, a trailer, a semitrailer or other mobile magazine. Type 5 magazines shall be theft-resistant. Type 5 storage magazines shall be of substantial construction with doors or covers of solid wood or metal.

(1) Locks. Except for vehicular storage magazines, each door of a type 5 storage magazine shall be equipped with two mortise locks; or with two padlocks fastened in separate hasps and staples; or with a combination of mortise lock and a padlock; or with a mortise lock that requires two keys to open; or with a three-point lock. Padlocks shall have case-hardened shackles of at least five tumblers and shall be protected with caps constructed of at least No. 15 gage steel to prevent any sawing or levering action on the locks or hasps.

(2) Indoor storage magazines. No indoor type 5 storage magazine used for the storage of blasting agents shall be located in a residence or dwelling.

(3) Outdoor storage magazines. The ground around type 5 outdoor storage magazines shall slope away for drainage.

(4) Vehicular storage magazines. Every type 5 vehicular storage magazine shall be locked with case-hardened steel padlocks having at least five tumblers and at least seven-sixteenths inch diameter shackles. One such padlock shall be provided for each door or opening and such padlocks need not be protected with caps. Hinges and hasps shall be securely fastened and all locking hardware shall be secured rigidly and directly to the door or opening frame. When unattended, such vehicular storage magazines shall have their wheels removed or shall otherwise be effectively immobilized by kingpin locking devices or other methods acceptable to the commissioner.

(h) Repair of storage magazines. Prior to the interior repair of any storage magazine, all explosive materials stored therein shall be removed and the interior shall be cleaned. Prior to the exterior repair of any storage magazine, all explosive materials shall be removed therefrom if there exists any possibility that such exterior repairs may produce sparks or flame. Any explosive materials removed from a storage magazine that is to be repaired shall either be placed in other magazines appropriate for the storage of such explosive materials under this section or shall be placed in a safe location at a safe distance from the magazine under repair where such explosives shall be properly guarded and protected until the repairs have been completed.

39.9 Location of magazines.

(a) Quantity and distance tables.

(1) The following tables show the distances from nearest buildings, railroads or highways, as these terms are defined in article 16 of the Labor Law, that the respective quantities and types of explosive materials may be stored.

(2) For the purpose of compliance with this Part (rule), the weight of finished fireworks shall be considered as the weight of explosive materials stored in a magazine.

(3) The following distances in Table 1, "High Explosives Quantity and Distance Table," may be reduced by one half when the building, railroad or highway to be protected is effectively screened from the explosives factory or magazine by an efficient barricade as defined in article 16 of the Labor Law.

(4) The board may authorize temporary deviations from the following quantity and distance tables when compliance therewith entails practical difficulties or unnecessary hardship, provided public safety is preserved.

(b) Quantity and distance requirements for blasting caps and detonating cord.

(1) Blasting caps. The quantity and distance requirements for blasting caps shall be as follows:

(i) Cap sizes up to and including No. 8—1,000 caps shall be rated equivalent to one and one-half pounds of explosives.

(ii) Cap sizes larger than No. 8—1,000 caps shall be rated equivalent to three pounds of explosives.

(2) Detonating cord. The quantity and distance requirements for detonating cord shall be as follows:

(i) Detonating cord containing up to and including 60 grains per foot shall be rated equivalent to nine pounds of explosives per 1,000 feet of cord.

(ii) Detonating cord containing more than 60 grains per foot shall be rated equivalent to 15 pounds of explosives per 1,000 feet of cord.

Table 1
High Explosives Quantity and Distance Table

<i>Explosives in Pounds</i>			<i>Distances in Feet</i>			
<i>Pounds over</i>		<i>Pounds Not Over</i>	<i>From Nearest Building</i>	<i>From Nearest Railway</i>	<i>From Nearest Highway</i>	<i>Separation of Magazines</i>
0	—	5	140	60	60	12
5	—	10	180	70	70	16
10	—	20	220	90	90	20
20	—	30	250	100	100	22
30	—	40	280	110	110	24
40	—	50	300	120	120	28
50	—	75	340	140	140	30
75	—	100	380	150	150	32
100	—	125	400	160	160	36
125	—	150	430	170	170	38
150	—	200	470	190	190	42
200	—	250	510	210	210	46
250	—	300	540	220	220	48
300	—	400	590	240	240	54
400	—	500	640	260	260	58
500	—	600	680	270	270	62
600	—	700	710	290	290	64
700	—	800	750	300	300	66
800	—	900	780	310	310	70
900	—	1,000	800	320	320	72
1,000	—	1,200	850	340	330	78

1,200	—	1,400	900	360	340	82
1,400	—	1,600	940	380	350	86
1,600	—	1,800	980	390	360	88
1,800	—	2,000	1,010	410	370	90
2,000	—	2,500	1,090	440	380	98
2,500	—	3,000	1,160	470	390	104
3,000	—	4,000	1,270	510	420	116
4,000	—	5,000	1,370	550	450	122
5,000	—	6,000	1,460	590	470	130
6,000	—	7,000	1,540	620	490	136
7,000	—	8,000	1,600	640	500	144
8,000	—	9,000	1,670	670	510	150
9,000	—	10,000	1,730	690	520	156
10,000	—	12,000	1,750	740	540	164
12,000	—	14,000	1,770	780	550	174
14,000	—	16,000	1,800	810	560	180
16,000	—	18,000	1,880	840	570	188
18,000	—	20,000	1,950	870	580	196
20,000	—	25,000	2,110	940	630	210
25,000	—	30,000	2,260	1,000	680	224
30,000	—	35,000	2,410	1,050	720	238
35,000	—	40,000	2,550	1,100	760	248
40,000	—	45,000	2,680	1,140	800	258
45,000	—	50,000	2,800	1,180	840	270
50,000	—	55,000	2,920	1,220	880	280
55,000	—	60,000	3,030	1,260	910	290

60,000	—	65,000	3,130	1,290	940	300
65,000	—	70,000	3,220	1,320	970	310
70,000	—	75,000	3,310	1,350	1,000	320
75,000	—	80,000	3,390	1,380	1,020	330
80,000	—	85,000	3,460	1,410	1,040	340
85,000	—	90,000	3,520	1,440	1,060	350
90,000	—	95,000	3,580	1,460	1,080	360
95,000	—	100,000	3,630	1,490	1,090	370
100,000	—	110,000	3,670	1,540	1,100	390
110,000	—	120,000	3,710	1,580	1,110	410
120,000	—	130,000	3,750	1,620	1,120	430
130,000	—	140,000	3,780	1,670	1,130	450
140,000	—	150,000	3,800	1,700	1,140	470
150,000	—	160,000	3,870	1,740	1,160	490
160,000	—	170,000	3,930	1,780	1,180	510
170,000	—	180,000	3,980	1,810	1,200	530
180,000	—	190,000	4,020	1,840	1,210	550
190,000	—	200,000	4,060	1,870	1,220	570
200,000	—	210,000	4,110	1,910	1,240	590
210,000	—	230,000	4,200	1,960	1,270	630
230,000	—	250,000	4,310	2,020	1,300	670
250,000	—	275,000	4,430	2,080	1,340	720
275,000	—	300,000	4,550	2,150	1,380	770

Table 2**Low Explosives Quantity and Distance Table**

<i>Pounds Over</i>		<i>Pounds Not Over</i>	<i>Inhabited Building (Distance in Feet)</i>	<i>Public Railroad and Highway (Distance in Feet)</i>	<i>Aboveground Magazine (feet)</i>
0	—	1,000	75	75	50
1,000	—	5,000	115	115	75
5,000	—	10,000	150	150	100
10,000	—	20,000	190	190	125
20,000	—	30,000	215	215	145
30,000	—	40,000	235	235	155
40,000	—	50,000	250	250	165
50,000	—	60,000	260	260	175
60,000	—	70,000	270	270	185
70,000	—	80,000	280	280	190
80,000	—	90,000	295	295	195
90,000	—	100,000	300	300	200
100,000	—	200,000	375	375	250
200,000	—	300,000	450	450	300

Table 3
Ammonium Nitrate and Blasting Agents
Quantity and Distance Table

<i>Donor Weight</i>			<i>Minimum Separation Distance of Receptor When Barricaded in Feet (See § 39.11 [a])</i>		<i>Minimum Thickness of Artificial Barricades in Inches (See § 39.11[d])</i>
<i>Pounds Over</i>		<i>Pounds Not Over</i>	<i>Ammonium Nitrate (See § 39.11[b])</i>	<i>Blasting Agent (See § 39.11[c])</i>	
0	—	100	3	11	12
100	—	300	4	14	12
300	—	600	5	18	12
600	—	1,000	6	22	12
1,000	—	1,600	7	25	12
1,600	—	2,000	8	29	12
2,000	—	3,000	9	32	15
3,000	—	4,000	10	36	15
4,000	—	6,000	11	40	15
6,000	—	8,000	12	43	20
8,000	—	10,000	13	47	20
10,000	—	12,000	14	50	20
12,000	—	16,000	15	54	25
16,000	—	20,000	16	58	25
20,000	—	25,000	18	65	25
25,000	—	30,000	19	68	30
30,000	—	35,000	20	72	30
35,000	—	40,000	21	76	30
40,000	—	45,000	22	79	35

45,000	—	50,000	23	83	35
50,000	—	55,000	24	86	35
55,000	—	60,000	25	90	35
60,000	—	70,000	26	94	40
70,000	—	80,000	28	101	40
80,000	—	90,000	30	108	40
90,000	—	100,000	32	115	40
100,000	—	120,000	34	122	50
120,000	—	140,000	37	133	50
140,000	—	160,000	40	144	50
160,000	—	180,000	44	158	50
180,000	—	200,000	48	173	50
200,000	—	220,000	52	187	60
220,000	—	250,000	56	202	60
250,000	—	275,000	60	216	60
275,000	—	300,000	64	230	60

39.10 General provisions for the possession, handling, storage and transportation of blasting agents.

All of the provisions of this Part (rule) relating to the possession, handling, storage and transportation of explosives shall also apply to blasting agents with the following exceptions:

- (a) Separation distances of blasting agents and ammonium nitrate from explosives or other blasting agents are given in Table 3 of this Part (rule). Table 3 applies only to the separation of stores. Table 1 shall be used in determining separation distances from inhabited buildings, public highways and passenger railways. Separation distances to prevent the explosion of ammonium nitrate and ammonium nitrate-based blasting agents are referred to in Table 3 of this Part (rule) as the donor. Ammonium nitrate, by itself, is not considered to be a donor when applying this table. Ammonium nitrate, ammonium nitrate fuel oil, or combinations thereof, are acceptors. If stores of ammonium nitrate are located within the sympathetic detonation distance of explosives or blasting agents, one half of the mass of the ammonium nitrate shall be included in the mass of the donor.
- (b) When the ammonium nitrate and/or blasting agents are not barricaded, the distances shown in Table 3 of this Part (rule) shall be multiplied by six. Such distances allow for the possibility of high-velocity metal fragments from mixers, hoppers, truck bodies, sheet metal structures, metal containers and similar materials which may enclose the donor. Where storage is in bullet-resistant magazines recommended for explosives or where the storage is protected by a bullet-resistant wall, distances in excess of those listed in Table 1 of this Part (rule) are not required.
- (c) The distances in Table 3 of this Part (rule) apply to ammonium nitrate that passes the insensitivity test prescribed in the definition of ammonium nitrate fertilizer promulgated by the National Plant Food Institute. Ammonium nitrate which fails to pass such insensitivity test shall be stored at separation distances determined by the licensee and such distances shall be acceptable to the commissioner.
- (d) The separation distances listed in Table 3 of this Part (rule) also apply to nitro-carbo-nitrates and blasting agents which pass the insensitivity test prescribed in the United States Department of Transportation (DOT) regulations.
- (e) Earth, sand dikes or enclosures filled with the prescribed minimum thickness of earth or sand are acceptable artificial barricades. Natural barricades, such as hills or timber of sufficient density that the surrounding exposures which require protection cannot be seen from the "donor" when the trees are bare of leaves, are also acceptable.

(f) When the ammonium nitrate must be counted in order to determine the separation distances from inhabited buildings, public highways and passenger railways, it may be counted at one half of its actual weight.

(g) Pneumatic loading equipment when handling sensitized ammonium nitrate blasting agents shall not be grounded to water lines, air lines, rails or permanent electrical grounding systems.

39.11 Transportation of explosives.

(a) General. Explosives shall be transported in accordance with the provisions of this section except for quantities of five pounds or less of black powder which shall be transported in accordance with the special provisions relating to black powder of section 39.12 of this Part (rule).

(b) Marking of vehicles. No person shall transport or cause or permit the transportation of explosives in any vehicle unless the front, rear and both sides of such vehicle are marked or placarded with the word "EXPLOSIVES" legibly printed in red letters at least six inches in height with letter strokes at least five-eighths inch in width. Such letters shall be on a white background. When such transportation of explosives takes place during the hours of darkness, such marking or placard shall consist of reflecting materials which shall be legible from a distance of at least 250 feet by a person approaching in a motor vehicle using undimmed headlights on an unlighted highway. This provision shall not apply to the transportation of not more than 15 pounds of smokeless powder.

(c) Smoking and other personal conduct. No person shall approach, ride upon, drive, load or unload a vehicle carrying explosives while:

- (1) under the influence of or carrying any intoxicant or narcotic;
- (2) at any time in a careless or reckless manner; or
- (3) while smoking or carrying matches or other flame-producing devices.

(d) Loading.

(1) No person shall place or carry, or cause to be placed or carried, in or upon a vehicle containing explosives any metal tool, piece of metal, fire, firearms, loaded cartridges, match or other device or material which produces spark, flame or heat. This provision shall not apply to tools used for the operation and repair of such vehicle when such tools are in a compartment separate from the loading space, nor to a wooden or nonferrous conveyor. This provision shall not be construed to prohibit the transportation of detonators in or upon the same vehicle with other explosives provided that such detonators be packed in the original outside shipping containers or in packages in an outside box made of one-inch lumber lined with suitable padding material not less than one-half inch thick. Such boxes other than

the original shipping containers shall be equipped with hinged covers and fastening devices and shall be securely closed. Detonators in quantities of 50 or less may be transported on the same vehicle with other explosives if they are inside shipping containers or other equivalent containers or wrapped in cloth with a fold of cloth separating each detonator. Detonators transported on the same vehicle with other explosives shall be located in a place remote from such other explosives on the vehicle and in a position easily accessible for quick removal.

(2) Bale hooks or ferrous metal tools shall not be used for loading or handling explosives.

(3) Explosives shall be transported only in the body of a vehicle and shall be loaded only to the height of the sides of the vehicle body. Any such vehicle shall not be loaded beyond its rated capacity and explosives shall be so placed thereon that packages thereof cannot fall from the vehicle. When transported in a vehicle with an open body, explosives shall be covered with a fire-retardant tarpaulin which shall be secured.

(e) Riders. No person shall carry, or permit or cause to be carried, any person other than the driver and his authorized helper or helpers in or upon any vehicle containing explosives.

(f) Qualifications for drivers. Vehicles transporting explosives shall be driven by and be in charge of competent, physically fit, reliable and experienced drivers; who are able to read and write the English language; who are familiar with and duly licensed to operate such vehicles; who are not addicted to the use or under the influence of intoxicants or narcotics; who know and obey the State motor vehicle laws, local ordinances and all rules and regulations governing the transportation of explosives. A copy of Industrial Code Part (rule) 39 shall be in the possession of each driver and helper.

(g) Condition and equipment of vehicles. No person shall load, unload or transport or cause or permit the loading, unloading or transportation of explosives of any vehicle unless such vehicle is in compliance with the following requirements:

(1) Such vehicle shall be in good working condition and capable of safely carrying the load placed upon it.

(2) The sides and ends of an open-bodied vehicle shall be high enough to prevent packages of explosives from falling off. The floor shall be tight and sound.

(3) Exposed ferrous metal on the inside of the vehicle body which is likely to come in contact with packages of explosives shall be covered or protected with wood or other nonferrous material.

(4) Any such vehicle, when carrying more than 200 pounds of explosives, shall be equipped with not less than two approved carbon dioxide fire extinguishers of from 10 to 12 pounds capacity each or two approved dry chemical fire extinguishers (ordinary or multi-purpose) of from four to seven pounds capacity each. Such

extinguishers shall be maintained in accordance with the manufacturer's instructions and with the board's resolution of approval.

(5) Trailers shall not be used for the transportation of explosives, nor shall any trailer be attached to a vehicle transporting explosives. This provision shall not apply to semi-trailers.

(6) The battery and electrical wiring of any motor vehicle used for the transportation of explosives shall be so located that they cannot come in contact with any package of explosives.

(7) The electric wiring of any such motor vehicle shall be completely insulated and securely fastened to prevent short-circuiting.

(8) The chassis, engine, pan and bottom of the body of any such motor vehicle shall be clean and free from excess oil and grease.

(9) The gasoline tank and fuel line of any such motor vehicle shall be free from leaks.

(10) The use of ferrous tire chains and ferrous studs in tires on any such vehicle is permitted when necessary to maintain vehicle control under hazardous driving conditions. Such chains shall be inspected and maintained to insure that no part of any such chain strikes the vehicle.

(11) The tires of any such vehicles shall have no defects and shall be properly inflated.

(h) Requirements for vehicles transporting explosives while in transit. No person in charge of a vehicle transporting explosives shall:

(1) Allow such vehicle to remain unguarded or unattended;

Exception:

An explosive-laden vehicle may be left unattended if it is parked at a magazine site or other location established solely for the purpose of storing explosives.

(2) Permit such vehicle to enter any structure;

(3) Even though attended, park such vehicle in close proximity to any building or other structure where persons work, congregate or assemble or on any bridge or in any tunnel or on any public street in a city, town or village unless otherwise allowed by law or as necessary for blasting operations.

(4) Load explosives upon or unload explosives from such vehicle unless the engine is turned off and the brakes securely set;

(5) With the exception of the lights necessary for the operation of such vehicle, use any type of lighting in or about such a vehicle except portable, explosion-proof, battery-operated flood lights or explosion-proof, battery-operated lanterns;

(6) Deliver explosives to anyone except those persons holding valid licenses authorizing such persons to receive explosives or to magazines having valid certificates issued in accordance with the provisions of section 458 of the Labor Law and of this Part (rule);

(7) Fill or cause or permit to be filled the fuel tank of such vehicle while explosives are on the vehicle, except in case of emergency and then only when the engine is turned off.

Exception:

When route to be traveled exceeds fuel tank capacity.

(8) Make any unnecessary stops.

If a stop is unavoidable, the precautions given in paragraphs (1) and (2) of this subdivision shall be observed and, in addition, the engine shall be turned off, the brakes securely set and the ignition key removed;

(9) Place any explosive immediately behind or in close proximity to the exhaust pipe of such motor vehicle;

(10) Allow travel through congested areas and heavy traffic. However, where routes through congested areas have been designated by local authorities, such routes shall be followed.

(11) Allow a flat tire or hot tire to remain on the vehicle. After removal, such a tire shall be placed sufficiently far from the vehicle so that in the event of spontaneous ignition the burning tire will not endanger the vehicle;

(12) Allow the vehicle to enter any area in which a riot or civil disorder is occurring. If the driver of such a vehicle finds himself in such an area, he shall immediately drive the vehicle out of the area and contact the nearest police agency for assistance and escort.

(i) Transportation of nitroglycerin. Vehicles used for the transportation of nitroglycerin shall be equipped with rubber insulated compartments for each container of such dimensions as to hold each container rigid, and the bodies of such vehicles shall be equipped with tops. The capacity of each such container shall not exceed 10 quarts. Leaking, rusty or warped containers shall not be used. Frozen nitroglycerin shall not be transported over public highways.

39.12 Special provisions relating to black powder.

(a) General.

- (1) The provisions of this section shall apply only in connection with the transportation, storage and sporting use of black powder in quantities of five pounds or less when such powder is used in antique firearms or weapons or replicas thereof.
- (2) Persons shall use, store, buy, sell, possess, transport, receive or dispose of black powder only in accordance with the provisions of the Labor Law and of this Part (rule).

(b) Transportation.

- (1) Vehicles carrying five pounds or less of black powder and carrying no other explosives shall be marked or placarded either on both sides or on both front and rear with circular signs or decals. Every such sign or decal shall have a minimum diameter of six inches and shall contain the letters "LOW-EX" in legible black letters at least one and one-quarter inches in height on a yellow background.
- (2) A trailer may be attached to a vehicle carrying five pounds or less of black powder and carrying no other explosives. This paragraph does not modify the provisions of paragraph 39.11(g) (5) of this Part (rule) which prohibits the use of trailers for the transportation of explosives.
- (3) A vehicle in transit carrying no other explosives than five pounds or less of black powder may be parked on a public street of a city, town or village near a dwelling, building or place where persons work, congregate or assemble provided that a designated person remains in such vehicle to guard the black powder.
- (4) Passengers other than the driver may be permitted in any vehicle transporting five pounds or less of black powder and carrying no other explosives and provided the black powder is located in the trunk of the vehicle or otherwise separated from the passenger compartment.
- (5) Smoking, if otherwise permitted by law, may be permitted by persons driving or riding in a vehicle containing five pounds or less of black powder and carrying no other explosives provided the black powder is located in the trunk of the vehicle or is otherwise separated from the passenger compartment. The other provisions of subdivision 39.11(c) of this Part (rule) shall remain in effect.
- (6) Unloaded firearms may be permitted in a vehicle transporting five pounds or less of black powder and carrying no other explosives provided such firearms are securely fastened to a portion of the vehicle or located in a case or box and are separated from the black powder box.

(c) Storage.

(1) Five pounds or less of black powder may be transported in a vehicle, stored in a residence other than a multiple dwelling or stored in a building other than a place of public assembly in accordance with the provisions of this paragraph.

(i) The black powder shall be either in the original shipping canisters, powder horns, powder flasks or as prepared charges in plastic or paper tubes. Such containers shall be kept in locked boxes constructed of wood at least three-quarters inch nominal thickness. Handles shall be provided on each end or a single handle shall be centered on the top of each such box for quick removal in case of any emergency.

(ii) Each such box shall be painted red with the letters "LOWEX" at least one and one-quarter inches in height printed in yellow or white on the cover.

(iii) When located in a residence or building, every such box shall be located in the basement, cellar or on the first floor and shall be within 10 feet of an outside exit or stairway leading to an outside exit.

(2) When stored in magazines, black powder shall be separated from other explosive materials. Kegs containing black powder shall be stored on ends with bung ends down, stored on their sides with seam sides down or stored in an equally secure manner.

(d) Sporting use.

(1) No person shall discharge firearms at, against or within 100 feet of a black powder storage box where such storage box contains five pounds or less of black powder.

(2) Persons over 14 and under 18 years of age shall be allowed to use black powder in firearms for sporting usage if such persons have qualified for or have been duly issued a current New York State hunting license issued by the New York State Department of Environmental Conservation. Such usage shall be under the direct supervision of such person's parents, guardians or other qualified persons over 18 years of age having written authorizations from the parents or guardians for such supervision.

39.12 Special provisions relating to black powder.

(a) General.

(1) The provisions of this section shall apply only in connection with the transportation, storage and sporting use of black powder in quantities of five pounds or less when such powder is used in antique firearms or weapons or replicas thereof.

(2) Persons shall use, store, buy, sell, possess, transport, receive or dispose of black powder only in accordance with the provisions of the Labor Law and of this Part (rule).

(b) Transportation.

(1) Vehicles carrying five pounds or less of black powder and carrying no other explosives shall be marked or placarded either on both sides or on both front and rear with circular signs or decals. Every such sign or decal shall have a minimum diameter of six inches and shall contain the letters "LOW-EX" in legible black letters at least one and one-quarter inches in height on a yellow background.

(2) A trailer may be attached to a vehicle carrying five pounds or less of black powder and carrying no other explosives. This paragraph does not modify the provisions of paragraph 39.11(g) (5) of this Part (rule) which prohibits the use of trailers for the transportation of explosives.

(3) A vehicle in transit carrying no other explosives than five pounds or less of black powder may be parked on a public street of a city, town or village near a dwelling, building or place where persons work, congregate or assemble provided that a designated person remains in such vehicle to guard the black powder.

(4) Passengers other than the driver may be permitted in any vehicle transporting five pounds or less of black powder and carrying no other explosives and provided the black powder is located in the trunk of the vehicle or otherwise separated from the passenger compartment.

(5) Smoking, if otherwise permitted by law, may be permitted by persons driving or riding in a vehicle containing five pounds or less of black powder and carrying no other explosives provided the black powder is located in the trunk of the vehicle or is otherwise separated from the passenger compartment. The other provisions of subdivision 39.11(c) of this Part (rule) shall remain in effect.

(6) Unloaded firearms may be permitted in a vehicle transporting five pounds or less of black powder and carrying no other explosives provided such firearms are securely fastened to a portion of the vehicle or located in a case or box and are separated from the black powder box.

(c) Storage.

(1) Five pounds or less of black powder may be transported in a vehicle, stored in a residence other than a multiple dwelling or stored in a building other than a place of public assembly in accordance with the provisions of this paragraph.

(i) The black powder shall be either in the original shipping canisters, powder horns, powder flasks or as prepared charges in plastic or paper tubes. Such containers shall be kept in locked boxes constructed of wood at least three-quarters inch nominal thickness. Handles shall be provided on each end or a

single handle shall be centered on the top of each such box for quick removal in case of any emergency.

(ii) Each such box shall be painted red with the letters "LOWEX" at least one and one-quarter inches in height printed in yellow or white on the cover.

(iii) When located in a residence or building, every such box shall be located in the basement, cellar or on the first floor and shall be within 10 feet of an outside exit or stairway leading to an outside exit.

(2) When stored in magazines, black powder shall be separated from other explosive materials. Kegs containing black powder shall be stored on ends with bung ends down, stored on their sides with seam sides down or stored in an equally secure manner.

(d) Sporting use.

(1) No person shall discharge firearms at, against or within 100 feet of a black powder storage box where such storage box contains five pounds or less of black powder.

(2) Persons over 14 and under 18 years of age shall be allowed to use black powder in firearms for sporting usage if such persons have qualified for or have been duly issued a current New York State hunting license issued by the New York State Department of Environmental Conservation. Such usage shall be under the direct supervision of such person's parents, guardians or other qualified persons over 18 years of age having written authorizations from the parents or guardians for such supervision.

39.13 Severability.

If any provision of this Part (rule) or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of this Part (rule) which can be given effect without the invalid provisions or applications and to this end the provisions of this Part (rule) are declared to be severable