



SAFETY REGULATION no. 21



Governing

THE TRANSPORTATION OF EXPLOSIVES

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NEW JERSEY DEPARTMENT OF LABOR & INDUSTRY
Trenton, N. J.

REGULATION SHELF

Division of
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FOREWORD

This Regulation is promulgated to establish reasonable minimum requirements for the safe transportation of explosives.

In the writing of this Regulation, the Commissioner was guided by the recommendations of the Institute of Makers of Explosives; the United States Bureau of Mines; the Bureau of Explosives, Association of American Railroads; and the National Fire Protection Association.

This Regulation is promulgated by the Commissioner of Labor and Industry of the State of New Jersey, under authority vested in him by law:

R.S. 21:1A-131. The Commissioner may make and promulgate rules and regulations necessary to further the purposes of this act. The rules and regulations may include requirements that are not mentioned specifically in this act, but which are reasonably necessary for the safety of the workers and the public and the protection of property.

The term explosives as used in this Regulation is defined in the Law itself as follows:

"Explosives" means any chemical compound or mixture that is commonly used or intended for the purpose of producing an explosion, that contains any oxidizing and combustible materials or other ingredients, in such proportions, quantities or packing that an ignition by fire, by friction, by concussion or by detonation of any part of the compound or mixture may cause such a sudden generation of highly heated gases that the resultant gaseous pressures are capable of producing destructive effects on

contiguous objects. The term "explosives" shall include, but is not limited to commercial explosives, propellants and nitro-carbo-nitrates. The term "explosives" except as specifically stated in this act, shall not include small arms ammunition, explosives in the form prescribed by the official United States Pharmacopoeia, or fireworks regulated under Revised Statutes sections 21:2-1 through 21:2-7.

Prior to promulgation this Regulation was reviewed and approved by the New Jersey State Industrial Safety Committee, and a draft copy was forwarded to all holders of explosives permits, inviting their review and comments.

SECTION 1 – PURPOSE AND SCOPE

- 1.1 **PURPOSE.** This Regulation is promulgated to establish reasonable minimum requirements and standards for the transportation of explosives in the interest of the life, health and safety of employees and the public, as well as the protection of property.
- 1.2 **SCOPE.** This Regulation is applicable to transportation equipment and its operation when such equipment is engaged in the transportation of explosives. Excluded from the scope of this Regulation is the transportation of explosives under the jurisdiction of and in conformity with the requirements of the Interstate Commerce Commission or the United States Coast Guard or the Civil Aeronautics Board.

1.3 EXCEPTIONS

- 1.3.1 In cases of practical difficulty or unnecessary hardship, the Commissioner may grant exceptions from the requirements of this Regulation, provided that a request for such exception has been made in writing. Exceptions can only be granted when it is clearly evident that a satisfactory and safe condition is attained, but cannot be granted in any case where conflict would be created with mandatory requirements of the law.
- 1.3.2 Nothing in this Regulation shall apply to the receipt, possession and use of signals required for the safe operation of vessels, motor vehicles, railroad cars, or aircraft by the operators of such vessels, motor vehicles, railroad cars or aircraft.

SECTION 2 – DEFINITIONS

2.1 GENERAL DEFINITIONS

- 2.1.1 *Approved* - approved by the Commissioner.
- 2.1.2 *Commissioner* - the Commissioner of Labor and Industry, or his authorized representative.

2.1.3 *Department* - the Department of Labor and Industry.

2.2 SPECIAL DEFINITIONS

2.2.1 *Car* - an ore car, truck, or any other wheeled conveyance for use on railroads in a mine or tunnel, whether hand trammed or included in a train.

2.2.2 *Tunnel* - an underground passageway, excavated by men and equipment working below the earth's surface, that provides a subterranean route along which men, equipment or substances can move, other than passageways excavated by mine or quarry operators in connection with such operations.

SECTION 3 - GENERAL PROVISIONS

3.1 COMPLIANCE. All transportation of explosives shall comply with the requirements of this Regulation.

3.2 EXCLUDED EXPLOSIVES. Excluded explosives, as listed in Section 8.1 of Safety Regulation No. 20, shall not be transported.

3.3 RESTRICTIONS

3.3.1 A motor vehicle with passenger car registration shall not be used for the transportation of explosives; provided, however a permit may be issued in accordance with the provisions of Section 1.3.1.

3.3.2 It is prohibited for any person to deliver any explosives to any person not in possession of a valid permit to manufacture, store, sell, transport or use explosives.

3.3.3 No motor vehicle shall be used to transport explosives unless a permit for such motor vehicle has been issued by the Commissioner, provided however, that no permit shall be required for any motor vehicle operating within the confines of an explosives manufacturing

establishment, mine or quarry. Such transportation, however, shall otherwise be in conformity with the requirements of this Regulation.

3.4 ACCIDENTS, FIRES AND EXPLOSIONS. All accidents, fires and explosions, occurring in connection with the transportation of explosives shall be reported at once to the State Police and the Department by telephone, and be supplemented by a detailed written report to the State Police or Department.

3.5 QUANTITY LOADED ON MOTOR VEHICLE. No quantity of explosives in excess of the limitations expressed on the permit to transport explosives shall be loaded or transported on the vehicle.

3.6 PERMITS

3.6.1 Requirements concerning permits are set forth in Safety Regulation No. 20 - *Explosives Permits and Fees*.

3.6.2 The permit to transport explosives shall be kept on the motor vehicle at all times when explosives are being transported.

3.6.3 No permit shall be required for the transportation of laboratory samples when the samples conform to Section 4.12.7 of this Regulation.

3.7 RADIO TRANSMISSION. The owner or operator of any motor vehicle equipped with a radio transmitter which is licensed for the transportation of explosives shall:

a. Have a notice posted in the cab of the motor vehicle stating that the transmitter is to be turned off when explosives are being loaded, unloaded or transported.

b. Turn off the transmitter when explosives are being loaded, unloaded or transported.

SECTION 4 – SURFACE TRANSPORTATION

4.1 GENERAL

4.1.1 No person shall place or carry or cause to be placed or carried in the bed or body of any motor vehicle containing explosives, any metal tools, sparking metal, carbides, oils, matches, firearms, electric storage batteries, flammable substances, acids, corrosive compounds, or other devices which can produce spark, flame or heat.

4.1.2 The provisions of Section 4.1.1 shall:

- a. Not apply to tools used for the operation and repair of such vehicle when in a compartment separate from the loading space.
- b. Not be construed as prohibiting the transportation of detonators in or upon the same vehicle with other explosives, when in compliance with the provisions of Section 4.3.

4.2 RESTRICTIONS

4.2.1 No portable magazine or explosive container shall be transported in any open-bodied vehicle without being securely attached to the body of the vehicle.

4.2.2 No explosives shall be transported in any form of full trailer, nor shall any trailer be attached to a vehicle transporting explosives. This provision shall not apply to semi-trailers.

4.3 DETONATORS AND OTHER EXPLOSIVES IN SAME VEHICLE

4.3.1 Detonators may be transported in a vehicle with other explosives only as follows:

- a. The detonators shall be packed in approved Interstate Commerce Commission outside shipping containers or in prescribed inside I.C.C. packages.

- b. The detonators shall be kept in an outside box made of one inch lumber lined with padding material not less than ½ inch thick, or in an approved portable magazine.
- c. When placed in closed body vehicles used exclusively for the transportation of explosives, detonators and other explosives may be transported together only in conformity with I.C.C. regulations and specifications.

4.3.2 When detonators are placed in a container or portable magazine, in accordance with the provisions of Section 4.3.1 the container or portable magazine shall:

- a. Be placed at the opposite end of the vehicle from the other explosives.
- b. If placed in the same container they shall be separated from the other explosives by a solid partition at least 6 inches thick.

4.4 QUANTITIES OF EXPLOSIVES

4.4.1 No quantity of explosives in excess of 30,000 pounds shall be transported in any one vehicle at any one time.

4.4.2 Detonators may be transported in the same vehicle with explosives provided the aggregate weight of explosives, as defined in the law does not exceed 5,000 pounds.

4.5 CONSTRUCTION

4.5.1 A vehicle used for the transportation of explosives, shall:

- a. Be capable of safely carrying the load placed upon it.
- b. Be in good operating condition.
- c. Not be loaded beyond its capacity.

- d. Have floors which are tight and substantial.
 - e. Have any exposed ferrous metal on the inside of the body that might come in contact with any package of explosives covered with wood or other non-sparking material.
- 4.5.2 No open body or rack-type body vehicle shall be used for the transportation of explosives unless:
- a. the vehicle is used on mine or quarry owned property, or other privately owned property and does not traverse a public highway, or
 - b. The vehicle is equipped with approved containers for holding the explosives.
- 4.5.3 Where open-body vehicles are permitted in accordance with the provisions of Section 4.5.2 a. of this Regulation:
- a. The explosives containers shall not be stacked higher than closed sides of the body.
 - b. The explosives shall be covered with a fire-resistant tarpaulin or other suitable material.
 - c. All sides of the body shall be strongly made and securely fastened.
 - d. The tail-gate must be closed and secured in place.
- 4.5.4 All vehicles shall be equipped with a reliable system of brakes on all wheels.
- 4.5.5 Such system of brakes shall include effective means for emergency application of brakes so that failure of any part of the service brake system will not leave the vehicle without brakes to stop and hold such vehicle.
- 4.5.6 The battery and wiring of a vehicle shall be so located that neither will come in contact with any package of explosives.

4.5.7 All electrical wiring of a vehicle shall be completely insulated and securely fastened to prevent short-circuiting.

4.5.8 All portions of the fuel-feed system shall be so constructed, located and free from leaks as to minimize a fire hazard.

4.5.9 The fill pipe or fill connection of any fuel tank shall be so located and arranged that fuel will not be spilled on any portion of the exhaust system in the event of overflow during the filling process.

4.5.10 With the exception of lights necessary for the operation of the vehicle, no type of lighting shall be used in or about a vehicle containing explosives except portable electric floodlights or electric lanterns.

4.5.11 The exhaust system of a vehicle shall be constructed and installed in a workmanlike manner, and in no case exposed to the accumulation of grease, oils, gasoline or other fuels.

4.5.12 The chassis, engine, pan and bottom of the body of a motor vehicle shall be clean and free from excess oil and grease.

4.6 SIGNS AND MARKINGS

4.6.1 Any vehicle when transporting explosives, shall be marked or placarded in one of the following ways:

a. The word "Explosives" painted on both ends and each side of the vehicle in letters at least 6 inches in height in colors contrasting with the background.

b. A placard with the word "Explosives" on both ends and each side of the vehicle in letters at least 6 inches in height in colors contrasting with the background.

4.6.2 The required marking shall be removed from, or covered on any vehicle to which it is at-

tached or affixed when such vehicle is not transporting explosives.

- 4.6.3 When any vehicle transports explosives at night, the explosives marking or placard shall conform with Section 4.6.1 of this Regulation and in addition shall be constructed of reflecting material so as to be legible for at least 300 feet when opposed by a motor vehicle displaying undimmed headlights at night on an unlighted highway.

4.7 ACCESSORIES

- 4.7.1 Every commercial vehicle used for transporting explosives shall be equipped with a minimum of two fire extinguishing units from the following groups:

- a. Two five pound or larger carbon dioxide extinguishers.
- b. Two four pound or larger dry chemical extinguishers.

- 4.7.2 Fire extinguishers shall be:

- a. Filled and ready for immediate use.
- b. Examined periodically by a competent person.
- c. Placed where readily accessible, one of which shall be in the cab of the vehicle.

- 4.7.3 Three I. C. C. approved red electric lanterns or reflectors and three red warning flags shall be carried on a vehicle transporting explosives, but not in the portion of the body in which explosives are being carried.

- 4.7.4 Any vehicle transporting explosives at night shall, in addition to requirements of Section 4.7.3 be equipped with one electric flashlight or one electric lantern.

4.8 INSPECTION

4.8.1 It shall be the duty of the person to whom a permit to transport explosives has been issued, or the operator of the vehicle to inspect the following each day the vehicle is being used to transport explosives.

- a. Fire extinguishers are filled and in working order.
- b. All electrical wiring is completely protected and securely fastened to prevent short-circuiting.
- c. Fuel tank and feed lines are secure and have no leaks.
- d. Chassis, engine, pan and underside of body are clean and free from surplus oil and grease.
- e. Brakes, lights, horn, windshield wiper and steering apparatus are functioning properly.
- f. Tires are properly inflated and have no defects.
- g. Three I.C.C. approved red electric lanterns or reflectors, three red warning flags are packed and ready for use.
- h. Vehicle is in proper condition in every other respect and acceptable for handling explosives.

4.8.2 It shall be the duty of the person to whom a permit to transport explosives has been issued to:

- a. Maintain a record card of daily vehicle inspections.
- b. Indicate by a check mark that all items listed in Section 4.8 of this Regulation have been inspected on each day the vehicle is used to transport explosives.

- c. Keep the record card in the vehicle at all times when explosives are being transported.
- d. Retain the record card for a period of one calendar month after the date of the last inspection and entry.

4.9 OPERATION

- 4.9.1 No person other than the driver or his authorized helper or helpers shall ride in or upon any vehicle containing explosives.
- 4.9.2 In no event shall the number of persons riding in a vehicle containing explosives exceed three.
- 4.9.3 No person shall be permitted to approach, ride upon, drive, load or unload a vehicle while smoking or while under the influence of an intoxicant or narcotics.
- 4.9.4 When feasible, the transportation of explosives shall be done during daylight hours.
- 4.9.5 All vehicles transporting explosives shall come to a full and complete stop before:
 - a. crossing any railroad track
 - b. entering upon any main highway
- 4.9.6 All vehicles transporting explosives must travel and remain at least 500 feet from any other vehicle carrying explosives moving in the same direction.
- 4.9.7 No vehicle transporting explosives shall be driven past fires burning on or near the highway until after due caution shall have been taken to ascertain that such passing can be made with safety.
- 4.9.8 No explosives shall be transferred, except in case of extreme emergency from one container to another on any highway or from one vehicle to another on any highway. When necessary to

make such a transfer, the person in charge of the vehicle shall set out red electric lanterns, or reflectors and flags and take all necessary means to protect and warn the other vehicles on the highway.

4.9.9 Vehicles transporting explosives shall always be kept in gear, and shall not exceed the posted legal speed limit for trucks.

4.9.10 No person in charge of a vehicle containing explosives shall:

- a. allow such vehicle to remain unattended except only in an emergency.
- b. permit such vehicle to enter or be taken to a public garage or repair shop for storage or repair.
- c. fill or permit the gasoline tank of the vehicle to be filled except when necessary to refuel enroute, and then only when the engine is not running.
- d. leave the vehicle unless the brakes are securely set, and the motor is stopped.
- e. make any repairs on such vehicle except in cases where repairs can be made without hazard.
- f. park on any public street adjacent to or in proximity to any bridge, tunnel, dwelling, building or place where persons work, congregate, or assemble, unless engaged in making deliveries or where the necessities of operations make such prohibitions impracticable.

4.9.11 Vehicles transporting explosives shall, whenever possible, avoid congested areas and heavy traffic.

4.10 DRIVER QUALIFICATIONS. Vehicles containing explosives shall be driven by, and be in charge of a competent, reliable and experienced driver, who shall:

- a. be in possession of a valid driver's license.
- b. be at least 21 years of age.
- c. be able to read and write the English language.
- d. not be addicted to the use of, or under the influence of intoxicants or narcotics.
- e. be familiar with the requirements governing the transportation of explosives.

4.11 LOADING AND UNLOADING

- 4.11.1 No bale hooks or metal hooks shall be used for the loading, unloading or other handling of explosives.
- 4.11.2 Cases of explosives shall not be dropped, slid or otherwise roughly handled.
- 4.11.3 Motors of vehicles containing explosives shall be stopped, brakes set and wheels blocked when parked on an incline before loading or unloading explosives.
- 4.11.4 Containers of explosives shall not be placed immediately in back of or in close proximity to the exhaust of the motor vehicle.
- 4.11.5 Explosives shall be so loaded on the vehicle that there is no danger of the explosives falling from the vehicle.

4.12 SAMPLES

- 4.12.1 New explosives and explosives devices, other than Army, Navy or Air Force explosives or chemical ammunition of a security classification, must be examined and approved by the Commissioner as safe for transportation before being offered for shipment, except that a sample of such explosives,

fireworks or explosives devices, not to exceed 5 pounds net weight, may be offered for transportation for this examination.

4.12.2 Before being offered for shipment, explosives articles in the experimental state must be made safe by removal of the ignition elements, or otherwise made safe.

4.12.3 Shipments of samples of explosives, and explosives devices must be packed, marked and described as required by Sections 12.5, 4.12.6, 4.12.7 and 4.12.8.

4.12.4 Samples of explosives (except liquid nitroglycerin) including explosive devices for examination in a laboratory only, and not intended for use or demonstration may be transported in a vehicle, providing that the following requirements are met:

- a. Not more than 100 detonators may be shipped in one outside package for laboratory examination and they must be packed, marked and described as provided in Section 4.12.6
- b. Not more than 10 pounds of explosives for laboratory examination may be packed on one outside package or transported in a vehicle at one time.

4.12.5 The net weight of the explosives contents must be plainly marked on the outside of each box of samples being transported.

4.12.6 Each outside package containing samples of explosives for laboratory examination must have securely and conspicuously attached to it a square red label, as described herein:

- a. Labels must be square measuring 4 inches on each side and bright red in color. Printing must be in black letters inside of a black line border measuring $3\frac{1}{2}$ inches on each side, and as shown herein:



4.12.7 Samples of the explosive shall:

- a. Be packed in well secured metal, glass or plastic containers, or in strong water proof paper or cardboard inside packages.
- b. Consist of not more than one half pound sample in each inside container.
- c. Have the inside package placed in sawdust or similar cushioning material at least 2 inches thick, in a wooden box.

4.12.8 Whenever a sample of explosives are contained in a metal envelope or receptacle, the sample shall:

- a. be properly cushioned with sawdust or similar cushioning material in a strong wooden box.
- b. have the inside box packed in a wooden box with at least 2 inches of cushioning material separating the boxes.

SECTION 5 - MINES AND TUNNELS

5.1 SURFACE TRANSPORTATION

5.1.1 Any vehicle transporting explosives within the limits of a mining property or tunnel project shall:

a. not require a permit to transport explosives, if the vehicle does not enter upon a public highway.

b. be in compliance with all the provisions of Section 1 of this Regulation.

5.1.2 The transfer of explosives from surface storage places shall be so arranged that no undue delay will occur between the time the explosives leave the surface storage magazine and the time they are properly stored in the mine, or distributed for use in the mine or tunnel.

5.2 UNDERGROUND TRANSPORTATION - GENERAL

5.2.1 Explosives shall not be left at any level station or near the shaft collar or mine entrance, but shall be taken to the place of use or storage without delay.

5.2.2 The quantity of explosives carried to the face of any tunnel or mine working place shall not exceed the amount estimated to be necessary for the blast.

5.2.3 Explosives in transit shall not be left unattended.

5.3 HOISTING OR LOWERING OF EXPLOSIVES

5.3.1 The hoistman shall be notified before explosives are transported in the shaft conveyance.

5.3.2 No person shall ride in any shaft conveyance containing explosives.

5.3.3 Detonators and other explosives shall not be transported at the same time on any shaft conveyance.

5.3.4 Explosives shall not be hoisted or lowered in the same shaft conveyance with other materials, supplies or equipment unless in a powder car.

5.3.5 All hoisting and lowering of ore, muck or other materials in other shaft compartments will be permitted while hoisting or lowering explosives, provided:

- a. the hoisting compartments are enclosed, or
- b. the explosives being hoisted or lowered are in an adequately enclosed shaft conveyance.

5.4 UNDERGROUND RAILROAD

5.4.1 No employees, except the train crew and powder man shall be permitted to ride on a train transporting explosives.

5.4.2 No explosives of any kind shall be transported on any locomotive.

5.4.3 No explosives shall be transported on a man-trip.

5.4.4 If 100 pounds or more of explosives are to be transported at one time into a tunnel, a powder car or cars shall be provided.

5.4.5 The car or cars containing explosives shall be pulled and not pushed by the locomotive.

5.4.6 The car shall be especially built for the purpose, and shall be kept locked except when necessarily opened for the placing or removing of explosives.

5.4.7 The compartment or compartments shall be electrically insulated from the metal frame of the car and possible contact with conductors on the ends, top and sides.

5.4.8 Each side of the powder car shall bear a sign with the word "Explosives" in letters not less than four inches (4") in height upon a background of sharply contrasting color.

5.4.9 Compartments for transporting detonators and explosives in the same car shall be separated by a distance of at least twenty-four inches, or by a solid partition at least six inches thick.

5.4.10 When the explosives car is being transported by a trolley locomotive, at least two (2) cars shall be placed between the explosives car and the locomotive, and an electrically insulated coupling or drawbar shall be used between the explosives car and the first car.

5.5 UNDERGROUND - TRACKLESS

5.5.1 Trackless vehicles used for the transportation of explosives shall comply with Section 4 of this Regulation.

5.5.2 No employees except the vehicle operator and powder man shall be permitted to ride on any vehicle transporting explosives.

5.5.3 Drivers of other trackless vehicles shall be notified in advance when explosives are being transported on roads or haulage ways over which such drivers operate.

5.5.4 Trackless vehicles which are transporting explosives shall not contain rock, ore or other materials except those used in blasting.

5.5.5 Truck type vehicles used for the transportation of explosives shall be equipped with a red light on the front.

5.5.6 Trackless vehicles used to transport explosives shall be truck type vehicles other than those with dump bodies.

5.6 MANUAL TRANSPORTATION

5.6.1 Explosives that are being transported manually from one place to another in the mine and are not in the original container, shall be placed in suitable bags or other containers for such transportation.

- 5.6.2 When transporting explosives manually, detonators and primers shall be transported in separate bags or containers from other explosives.

SECTION 6 - RAILROADS

6.1 GENERAL

6.1.1 No person shall have or keep explosives in a railway car unless said car and contents and methods of loading meet the requirements of the Interstate Commerce Commission Regulations for the Transportation of Explosives.

6.1.2 Any explosives at a railroad facility, whether for delivery to a consignee or to be forwarded to some other destination, shall be kept in a safe place, isolated as far as practicable and in such a manner that they can be easily and quickly removed.

6.1.3 Explosives shall not be delivered to, or received from any railway station between the hours of sunset and sunrise, except by special permission from the Commissioner.

6.2 NOTIFICATION UPON ARRIVAL OF EXPLOSIVES.

When explosives are brought by rail into any municipality, except at an explosives manufacturing plant in said municipality, for delivery to an intermediate receiver, consignee's agent or consignee, or to be forwarded to some other destination, the carrier performing the shipment shall immediately notify the consignee of the arrival of the explosives.

6.3 REMOVAL OF EXPLOSIVES

6.3.1 If the consignee does not receive and remove the explosives from the possession of the carrier within forty-eight hours (Sundays and Holidays excluded) after such notification, then the railroad shall:

- a. remove the explosives from the municipality, or
- b. remove the explosives to a properly permitted magazine.

6.3.2 Any person having been notified, as consignee, of a shipment of explosives being in the hands of any railroad, shall remove the explosives within 48 hours (Sundays and Holidays excluded) to some place meeting the requirements of the Explosives Law and Regulations.

6.4 DISPOSITION OF DAMAGED EXPLOSIVES. The handling, repacking and disposition of damaged explosives shall conform to the requirements of Tariff No. 13, Interstate Commerce Commission Regulations, issued September 15, 1960.

6.5 HANDLING RAILROAD CARS OF EXPLOSIVES. The handling of cars containing explosives in railroad yards shall conform to the requirements of Tariff No. 13, Interstate Commerce Commission Regulations, issued September 15, 1960.

6.6 PLACARDING OF RAILROAD CARS

6.6.1 Every railroad car containing explosives which has reached its destination, or is stopped in transit so as no longer to be in Interstate Commerce, shall have attached to both sides and ends of the car, placards with the words "EXPLOSIVES - HANDLE CAREFULLY - KEEP FIRE AWAY" in red letters.

6.6.2 All placards shall be removed after the railroad car has been unloaded.

6.7 UNLOADING AND LOADING OF RAILROAD CARS

6.7.1 Railroad cars containing explosives shall be so placed that they will be safe from all probable danger of fire.

6.7.2 All dry leaves, dry grass, trash and debris should be removed for a distance of at least 25 feet from cars containing explosives.

6.7.3 When railroad cars are opened, all seals shall be retained and a record made of the seal numbers.

6.7.4 Between trips of unloading or loading a railroad car, the railroad car shall be locked or guarded.

- 6.7.5 When unloading or loading in railroad yards with parallel tracks on both sides of the railroad car, the doors shall be kept closed when steam locomotives are passing or are near the car.
- 6.7.6 Any railroad car which has contained black powder, shall be swept out, and the sweepings destroyed by throwing into water.
- 6.7.7 The railroad company shall be notified as soon as a railroad car has been loaded or unloaded.

SECTION 7 - VESSELS

7.1 GENERAL

- 7.1.1 No explosives shall be received at any pier, wharf or harbor facility for import or export unless permission has first been obtained from the Commissioner.
- 7.1.2 No explosives shall be delivered to any pier, wharf or harbor facility for use in the waters of the State unless permission has first been obtained from the Commissioner.
- 7.1.3 No explosives shall be carried or transported on the waters of the State on any vessel which is carrying passengers for hire.

7.2 MARKING OF VESSELS

- 7.2.1 Any vessel transporting explosives shall display on a suitable staff an International Code Flag B, readily discernible from a distance of not less than 1,000 feet by day, and which shall be properly illuminated at night.
- 7.2.2 Any vessel when transporting explosives shall be marked or placarded in one of the following ways:
 - a. The word "EXPLOSIVES" painted on both sides and the stern of the vessel in letters at least 6 inches in height in colors contrasting with the background.

- b. A placard with the word "EXPLOSIVES" placed on both sides and the stern of the vessel in letters at least 6 inches in height in colors contrasting with the background.

7.2.3 The required marking shall be removed from, or covered on any vessel to which it is attached or affixed when such vessel is not transporting explosives.

7.3 REFLECTIVE SIGNS. When any vessel transports explosives at night, the explosives marking or placard shall conform with Section 7.2.2 of this Regulation, and in addition shall be constructed of reflecting material adequate to be legible at 300 feet.

7.4 ACCESSORIES. Every vessel transporting explosives shall be equipped with at least two efficient fire extinguishers of adequate size to capably deal with gasoline or oil fires.

7.5 SMOKING. No smoking shall be permitted on any vessel transporting explosives except in designated areas.