

FDNY Fire Prevention – Explosives Unit

Permits for Transportation, Storage and Use

This list is a general summary of the Special Effects activities that require a permit, the amounts of materials that trigger a permit and the associated costs as of 2.1.15. This list is not definitive and does not supersede NY City Fire Code, NYC Administrative Code, NY State Explosives Laws, Federal Laws governing these materials or any of the written or oral guidelines issued by the FDNY Explosives Unit or the Mayor’s Office of Film, Theater & Broadcasting or any other AHJ.

NOTE: All permits issued by FDNY Explosives Unit require a site inspection prior to issuance

Item	Quantity	Description	Permit type and cost
Smoke – Exterior	Any quantity of electric foggers and including one (1) fueled fogger	Smoke, steam or any effect that looks like it including up to one (1) Artem and Igeba smoke machines that use fuel for heat.	FDNY Explosive Unit permit and inspection at \$210.00 per location plus: <ul style="list-style-type: none"> Mayor’s Office Schedule A showing smoke effects
Smoke – Exterior	Two (2) or more fueled foggers – any pyrotechnic smoke	Smoke, steam or any effect that looks like it using two (2) or more Artem or Igeba smoke machines that use fuel for heat and or pyrotechnic smoke devices of any kind with squibs, pull tabs or fuses	FDNY Explosives Unit permit and inspection at \$210 per location plus: <ul style="list-style-type: none"> an E-19 to supervise 2-4 foggers & pyro an E-18 to supervise 5 or more fueled foggers & pyro Mayor’s Office Schedule A showing smoke
Smoke – Interior	Any quantity of electric fog or haze machines	Smoke, haze, dust or any particle that might set off a smoke or fire detection alarm	FDNY Explosive Unit permit and inspection at \$210.00 per location
Colored Smoke Cookies, smoke powder or smoke sticks -- Interior	Any quantity of pyrotechnic or lit smoke	Smoke or smoke like dust effects or smoldering smoke compound to make smoke -- including non-toxic colored -- in NYC within a building	FDNY Explosives Unit permit and inspection at \$210 per location plus: <ul style="list-style-type: none"> an E-18 or E-19 to supervise the effect if required by FDNY Inspector
Candles	Any lit candles	Lit wax candles or candle ornaments	FDNY Explosives Unit permit and inspection for open flame at \$210 plus <ul style="list-style-type: none"> an E-18 or E-19 to supervise the effect if <u>required</u> by FDNY Inspector
Cigarette or cigar	Lit smoking materials	Cigarettes, cigars or any other smoking material used on stage or set	FDNY Explosives Unit permit and inspection for open flame at \$210

Item	Quantity	Description	Permit type and cost
Air Cannon or Debris Mortar – Interior OR exterior	Any	Confetti, debris or any material launched from a cannon with a reservoir and pressurized with inert gas 0 to 195 psi.	FDNY Explosive Unit permit and inspection \$210.00 per location
Hand held confetti cannon	Any	Confetti launched from a 1" or 2" barrel with a disposable gas cartridge (8 gram or 16 gram) or spring system	Notification to FDNY Explosive Unit by user for clearance <ul style="list-style-type: none"> Permit may or may not be Required <u>depending on circumstances</u>
Confetti Blower	Any	Confetti launched by a fan or blower	Not Required
Confetti Blaster	Any	Confetti launched by air mover/Venturi horn using 25 or 50# CO2 tank	Not Required <ul style="list-style-type: none"> unless more than 10 tanks on site then per FDNY Explosive Unit
CryoJet – Liquid CO2 burst	1 – 10 tanks 1 Dewar	CryoJet using CO2 from 25 or 50 lb tanks at tank pressure. Total quantity not exceeding 60 gallons or 500 lbs	W-79 Cryogenic and Compressed gases COF only.
CryoJet or Cryogenic Fog	11 or more cylinders or two (2) or more Dewars of refrigerated liquid	Using CO2 from multiple high pressure tanks or Refrigerated CO2 or LN2 <ul style="list-style-type: none"> CryoJet using CO2 from high pressure tanks or Refrigerated Liquid CO2 in quantities exceeding 501 lb or 60 gallons Cryo Fog Using Liquid Nitrogen in quantities exceeding 60 gallons (generally more than 1 Dewar) for fog or chilled effects 	<ul style="list-style-type: none"> FDNY Explosive Unit permit at \$210.00 per location W-79 COF on site O2 and/or CO2 level monitoring Confirmation of fresh air (8 changes of air per hour) for storage
Dry Ice for fog or effects	Any	Use of solid Carbon Dioxide (Dry Ice) for entertainment special effects	Call FDNY Explosives Unit for Clarification – Properly ventilated storage, no COF is generally required
Blank cartridges	Any	Use of blanks on stage, set, or street	FDNY Explosive Unit Permit for \$105
Blank Cartridges – Storage	200 rounds or more	Storage of blanks in excess of 200 rounds at any location	FDNY Explosives Unit Permit at \$105
Storage of Pyrotechnic Materials or High Order Explosives	Any	Storage of High Order Explosives in a Type II magazine at a location	FDNY Explosives Unit permit at \$210 plus 24 hour security on site
Storage of Pyrotechnic Materials flammable gas or flammable liquids	Any	Storage of Low Explosives, Flammable Solids, Articles Pyrotechnic, Flammable Gas or Flammable Liquids in an FDNY approved magazine, cage or bunker at a stage, theater or on location	FDNY Explosives Unit permit at \$210 plus sprinklers and smoke detector if indoors

Item	Quantity	Description	Permit type and cost
Falling snow - Exterior	Fluid based	Foam fluid based falling snow from a Silent Storm, Little Blizzard, Snow Backpack etc.	FDNY Explosive Unit Permit at \$210 plus Schedule A from Mayor's office showing snow fluid use is approved.
Falling snow – Snow Candles - Exterior	Any quantity	Pyrotechnic snow candles	FDNY Explosive Unit Permit at \$210 plus Schedule A from Mayor's office showing snow candles as allowed. E-18 at FDNY Discretion
Car or gasoline vehicle	Any	Running on stage with exhaust hose to exterior vent with limited fuel	FDNY Explosive Unit Permit for \$105
Car crash, or accident scene with car	Any	A car crash with motion or staged on the streets of NYC	FDNY Explosive Unit Permit and Monitoring at \$420 per shift
LPG transport of tanks	Any	Transport, delivery and storage of LPG tanks from 20# - 100# for use on set, stage or for entertainment events	COF G-44 plus FDNY Hazmat Unit transportation approval for vehicle to a permitted location
Heating with LPG or Kerosene	Any	Use of LPG radiant heaters, Kerosene torpedo heaters or any other fueled heater on set, on location or in a tent or other temporary structure. <ul style="list-style-type: none"> Transport in accordance with FDNY Hazmat Unit requirements as above 	FDNY Explosive Unit Permit and inspection at \$210 plus <ul style="list-style-type: none"> FDNY COF holder E-18 or E-19 as determined by location
FDNY Site Inspection and Permit issue	Per location	Shifts are 8 am – 4 pm, 4 pm – 12 midnight and 12 midnight to 8 am	FDNY Explosive Unit Permit and inspection at \$210 <ul style="list-style-type: none"> Inspections after 4 pm or before 8 am or on weekends are at \$420
FDNY Monitoring	Per shift	Shifts are 8 am – 4 pm, 4 pm – 12 midnight and 12 midnight to 8 am	\$420 billed by FDNY Explosives Unit
FDNY Pumper truck	5 hour min.	Standby equipment for fire suppression	\$2600 plus \$525 per hour after 5 hours
Pre-Inspection of a location	With notice in advance of date of shoot	Site, stage, location or equipment inspections that are performed in advance of the permit issuance	At no charge during weekday shifts – At FDNY Explosive Unit discretion nights and weekends

Quantity Conversions:

Dewar of liquid carbon dioxide (LCO2) = 180 liters or 47.6 gallons

Dewar of Liquid Nitrogen (LN2) = 160 Liters or 42.3 gallons

Tank of CO2 50 lbs. = 18 liters or 4.75 gallons

All Permit Inquiries by phone to Chief Inspector James Lauer,

Phone: 718.999.1595

email explounit@fdny.nyc.gov

Relevant FDNY Certificates of Fitness:
E-15 Magazine Keeper – Storage of explosives
E-18 Pyrotechnic Special Effects – Indoor and Outdoor, including flammable and inert compressed and cryogenic gases
E-19 Pyrotechnic Special Effects Class B – Indoor only including flammable and inert compressed and cryogenic gases
G-44 Storage and Handling of LPG/CNG
W-79 City Wide Compressed and Cryogenic Gasses, Storage and Use

For information on FDNY Certificates of Fitness see:

http://www.nyc.gov/html/fdny/html/c_of_f/coff.shtml