

Operational Permit Application



Explosives or Fireworks Display

www.cityofvancouver.us/departments/fire-department

International Fire Code as adopted by VMC 16.04 (Washington State Fire Code)

Permitting Requirements

An **operational permit** is required for the manufacture, storage, handling, possession, sale, or use of any quantity of explosives, explosive materials, or pyrotechnic special effects as regulated by WSFC 105.5.16. **The possession, sale, or use of fireworks is illegal** in the city limits of Vancouver per the Vancouver Municipal Code (VMC) Title 16.20.

Exception: Where a valid permit is issued to a pyrotechnic operator, licensed in the State of Washington, for activity in the city limits of Vancouver.

An **operational permit** is required for the possession, storage, handling, or launch of any quantity of fireworks for public display.

This permit approval will be for either explosives or fireworks, not both.

Project Information							
Site Address			Owner N	ame			
Other							
Applicant Inforn	nation						
Company Name			Address				
Contact Name							
Office Phone		Cellular				Email	
Contractor							
Company Name			Address				
Contact Name							
Office Phone		Cellular				Email	
Related Permits:	RES	CMI		DEF_			MPE
Description of W	Vork □ Explosives	☐ Firewo	rks Display	(checl	k one)		

	T						
Explosives	☐ High Explosives	☐ Blasting	Agents		\square Low explosives		
Type:	☐ Black Powder	☐ Theatric	al Flash Pow	vder	□Other (Specify):		
Electroni	c Plan Standards						
File Naming	Standards:					City of Vancouver, Washington	
-		-		-	f Vancouver <u>ePLANS</u> system:	DIANIC	
nttps://www	v.cityofvancouver.us/busir	ness/permits-lic	<u>enses-and-in</u>	ispectio	ons/epians/	ePLANS	
Acceptable F							
Plans, calcula	ations, specifications and	supporting doc	uments shall	be upl	oaded as a PDF file.		
Plan Sheet S							
	ll be drawn to scale, as ide asurement calibrations.	entified in the c	hecklist, and	each s	heet shall state the scale and sho	ow a measurable scale on the	
Document O		ane" format in	the horizonts	al nocit	ion with a north indicator. All oth	ner documents can be in	
"Portrait" fo		ape format in	the nonzonta	ai posit	ion with a north indicator. All oth	iei documents can be in	
Stampade							
Stamped: Where docu	mentation contains a code	e analysis or en	gineering cal	culatio	ns, such documents shall be stan	nped by the design	
professional.		,	3		,	. , .	
Definitions							
	apters 2 and 56, RCW 70.	74.10, and app	licable Codes	of Fed	eral Regulations (CFR) definition	s sections and NFPA Standard	
definitions.	n Submittal Check	list for Unl	nad to eP		s .		
		_			ireworks Display (this document	Check all Permit Conditions	
	ckboxes that are applicab			765 61 1	neworks Bisplay (this accument	, encorain remme conditions	
	• • • • • • • • • • • • • • • • • • • •			ents an	d supplemental documents (See	Document Details below) or	
for	fireworks display, Hazardo	ous Materials In	ventory State	ement	(HMIS) shall be submitted.		
	plans and floor plans (see	e <i>Plan Details</i> b	elow)				
	shington State Licensing						
	nt Details						
					3/10/Hazardous-Materials-Mana required HMMP and/or suppler		
See varicouv	er rire Department niviivi	P Guide Joi dire				-	
Does your b	usiness		-	se com	plete these pages of the HMMP	and supplemental (linked	
			above)				
	explosives or explosive m	aterials,	□ YES		☐ All HMMP documents		
including bla	sting agents?			,			

Store o	or use firework materials, for public display?	□ YES □ NO	 An inventory statement (HMIS) shall be submitted (a portion of the HMMP document)
An HM	MMP must contain the following minimum elemen	its:	
	Facility Information Form: Business Activities De	claration page	
	Facility Information Form: Business Owner/Open	rator Identifica	tion page
	Hazardous Materials Inventory Statement (HMIS	5)	
	HMIS Hazard Class Summary Report		
	0 7 1 7 0 7		
	Employee Training Plan		
	1 0		
	,		
	lition to the HMMP documents listed above, provi		ng documents:
			LL all 60 for
	,	unt determine	d by the City of Vancouver
	'	documentatio	
			i.
			ords and cans letc
			fications (1.3G fireworks are also known as UN 0335 by the
	DOTn).	and then class	meations (1.30 in eworks are also known as on 0333 by the
Dlan	Details		
		la	review of an employing growth. The plan shall be discuss to 4.0%
			review of an explosives permit. The plan shall be drawn to 1/8"
		ні ан аррисаві	e information so an accurate and timely review may be
comple	eteu.		
Genera	al·		
		v lines locatio	ns of structures on other neighboring properties, and distance
		-	zine(s) as well as listings for each magazine for products, and
		_	appression to include fire pumps, ponds, water supplies, layout
	of fire lanes, gas meter, portable fire extinguishe		
		,	stability, and knowlook equipment it installed.
		ner structures	with distance measurements.
			location of primary and secondary exit routes, locations of fire
			er fire protection control systems and/or panels.
	Information on the types of fire alarm systems i	nstalled, and v	when they were last inspected (provide report/photo of current
	inspection tag(s)). This shall include all fire alarn	n systems or o	ther gas detection systems at the facility.
	Information of the sprinkler system type, fire ex	tinguishers an	d their locations or any type of alternate (including but not
	limited to automatic hood suppression, paint bo	ooth systems,	clean agent, etc.) fire protection system and last inspection date
	(provide photo/report of current inspection tag	(s)).	

	Material showing the storage of explosives and explosive materials in magazines in compliance with table 5604.3.
	Written details listing the types of explosives stored and their specific amounts and intended uses.
	Written statement certifying compliance with Chapter 56 of the WSFC and other applicable codes and standards:
	 NFPA 495 – Explosive Materials Code
	 NFPA 1124- Code for the Manufacturing, Transportation, and Storage of Fireworks and Pyrotechnic Articles
Blastin	g:
	Written plan for the blasting operation including site plan with all blasting locations noted.
	Written safety and emergency plan to include notification to the responding fire department and identifying who with the
	fire department received notice.
	Copy of proof of certificate of insurance or bond in such form, amount, and coverage as determined by the city of Vancouver
	attorney's office to be adequate in each case to indemnify Vancouver against any and all damages arising from permitted
	blasting.
	Written misfire procedures and post blast procedures
	Accountability procedures to ensure misfires are not left on site.
	Copies of all certifications and licenses
	Notification plans: Affected neighboring property owner notifications, emergency responder notifications (police & fire) a
	minimum of two working days in advance is required.
	Proposed blasting dates and hours.
Firewo	rks display:
	Applications for fireworks display using Division 1.3G fireworks shall include a diagram of the location at which the fireworks
	display will be conducted, including the site from which fireworks will be launched; the location of buildings, highways,
	overhead obstructions, and utilities; and the lines behind which the audience will be restrained. Note the distances and
	directions to potential wildland interface areas.
	Written plan for the fireworks display-operation including site plan with launch point and planned fallout locations noted.
	Written safety and emergency plan to include notification to the responding fire department and/or the presence of standby
	firefighting personnel and apparatus. Launch site and magazine security provisions.
	Copy of proof current Washington State Fire Marshal licensing for Pyrotechnic Operator and General Public Display.
	Copy of proof of certificate of insurance or bond in such form, amount, and coverage as determined by the city of Vancouver
	attorney's office to be adequate in each case to indemnify Vancouver against any and all damages arising from permitted
	blasting or fireworks display.
	Written misfire procedures and post operation procedures.
	Accountability method and procedures to ensure misfires are not left on site.
	Copies of all applicable certifications and licenses
	Notification plans: Affected neighboring property owner notifications, emergency responder notifications (police & fire and
	CRESA 911) a minimum of two business days in advance is required.
	Proposed date and hours of display.

Permit Conditions

The following is a list of Chapter 56 WSFC requirements related to explosive operations. Use this form to confirm that all applicable requirements are met. Non-applicable requirements can be left blank.

General:

	In addition to the requirements set forth by WSFC Chapter 56, NFPA 495 shall govern the manufacture, transportation,							
	storage, sale, handling, and use of explosive materials (WSFC 5601.1.1).							
	In addition to the requirements set forth by WSFC Chapter 56, the operation of explosive material terminals shall conform to the provisions of NFPA 498 (WSFC 5601.1.2).							
	The storage, handling and use of model and high-power rockets shall comply with the requirements of NFPA 1122, NFPA 1125 and NFPA 1127 (WSFC 5601.1.4).							
	The storage and handling of ammonium nitrate shall comply with the requirements of NFPA 400 and WSFC Chapter 63 (WSFC							
	5601.1.5).							
	Exception: Storage of ammonium nitrate in magazines with blasting agents shall comply with the requirements of NFPA 495.							
	The following materials or such materials currently in storage shall not be permitted for the manufacture, storage, handling,							
	sale or use and shall be disposed of in an approved manner (WSFC 5601.3):							
	1. Liquid nitroglycerin.							
	2. Dynamite containing more than 60-percent liquid explosive ingredient.							
	3. Dynamite having an unsatisfactory absorbent on one that permits leakage of a liquid explosive ingredient under any condition liable to exist during storage.							
	 Nitrocellulose in a dry and uncompressed condition in a quantity greater than 10 pounds of net weight in one package. 							
	 Fulminate or mercury in a dry condition and fulminate of all other metals in any condition except as a component of manufactured articles not hereinafter forbidden. 							
	6. Explosive compositions that ignite spontaneously or undergo marked decomposition, rendering the products of their use more hazardous, when subjected for 48 consecutive hours or less to a temperature of 167 °F.							
	7. New explosive materials until approved by DOTn, except that permits are allowed to be issued to education,							
	governmental or industrial laboratories for instructional or research purposes.							
	8. Explosive materials forbidden by DOTn.							
	9. Explosive materials containing ammonium salt and chlorate.							
	 Explosives not packed or marked as required by DOTn 49 CFR Parts 100 – 185. <u>Exception:</u> Gelatin dynamite 							
	Persons in charge of magazines or blasting operations shall not be under the influence of alcohol or drugs that impair sensory							
	or motor skills, shall not be less than 21 years of age and shall demonstrate knowledge of all safety precautions related to the storage, handling or use of explosives and explosive materials (WSFC 5601.4).							
	Whenever a new explosive material storage or manufacturing site is established, including a temporary job site, the local law							
	enforcement agency, fire department and local emergency planning committee shall be notified 48 hours in advance, not							
	including weekends and holidays, of the type, quantity, and location of explosive materials at the site (WSFC 5601.6).							
	Storage of explosives and explosive materials, small arms ammunition, small arms primers, propellant-actuated cartridges,							
	and smokeless propellants in magazines shall comply with the provisions of WSFC 5604 (WSFC 5604.1).							
	Magazines containing explosive materials shall be opened and inspected at maximum seven-day intervals. The inspection							
	shall determine whether there has been an unauthorized or attempted entry into a magazine or an unauthorized removal of a							
	magazine or its contents (WSFC 5604.9).							
	magazine of its contents (wsi c 5004.5).							
Establis	hment of Quantity:							
	The quantity-distance tables in WSFC 5604.5 and 5605.3 shall be used to provide the minimum separation distance from							
_	potential explosion sites as set forth in Tables 5601.8.1(1), 5601.8.1(2), and 5601.8.1(3) (WSFC 5601.8.1).							
	The total net explosive weight of mass-detonating explosives (Divisions 1.1, 1.2, or 1.5) shall be used. See Table 5604.5.2(1) or							
_	Table 5605.3, as appropriate (WSFC 5601.8.1.1).							
	Exception: Where the TNT equivalence of the explosive material has been determined, the equivalence is allowed to be used							
	to establish the net explosive weight							

	Non-mass-detonating explosives (excluding Division 1.4) shall be as follows (WSFC 5601.8.1.2):
	1. Division 1.3 propellants. The total weight of the propellants alone shall be the net explosive weight. The net weight
	of propellant shall be used. See Table 5604.5.2(2).
	2. Combinations of bulk metal powder and pyrotechnic compositions. The sum of the net weights of metal powders
	and pyrotechnic compositions in the containers shall be the net explosive weight. See Table 5604.5.2(2).
	Combinations of mass-detonating and non-mass-detonating explosives (excluding Division 1.4) shall be as follows
	(5601.8.1.3):
	 Where Division 1.1 and 1.2 explosives are located in the same site, determine the distance for the total quantity considered first as 1.1 and then as 1.2. The required distance is the greater of the two. Where the Division 1.1 requirements are controlling and the TNT equivalence of the 1.2 is known, the TNT equivalent weight of the 1.2 items shall be allowed to be added to the total explosive weight of Division 1.1 items to determine the net explosive weight for Division 1.1 distance determination. See Table 5604.5.2(2) or Tale 5605.3, as appropriate. Where Division 1.1 and 1.3 explosives are located in the same site, determine the distances for the total quantity considered first as 1.1 and then as 1.3. The required distance is the greater of the two. Where the Division 1.1 requirements are controlling and the TNT equivalence of the 1.3 is known, the TNT equivalent weight of the 1.3 items shall be allowed to be added to the total explosive weight of Division 1.1 items to determine the net explosive weight for Division 1.1 distance determination. See Table 5604.5.2(1), 5604.5.2(2) or 5605.3, as appropriate.
	 weight for Division 1.1 distance determination. See Table 5604.5.2(1), 5604.5.2(2) or 5605.3, as appropriate. Where Division 1.1, 1.2 and 1.3 explosives are located in the same site, determine the distances for the total quantity considered first as 1.1, next as 1.2 and finally as 1.3. The required distance is the greatest of the three. As allowed by Items 1 and 2, TNT equivalent weights for 1.2 and 1.3 items are allowed to be used to determine the net weight of explosives for Division 1.1 distance determination. Table 5604.5.2(1) or Table 5605.3 shall be used where TNT equivalency is used to establish the net explosive weight.
	4. For composite pyrotechnic items Division 1.1 and Division 1.3, the sum of the net weights of the pyrotechnic
	composition and the explosives involved shall be used. See Tables 5604.5.2(1) and 5604.5.2(2).
	For Division 1.4 explosives, the total eight of the explosive material alone is the net weight. The net weight of the explosive
	material shall be used (WSFC 5601.8.1.4).
Pecord	Keeping and Reporting:
	The permittee shall maintain a record of all transactions involving receipt, removal, use or disposal of explosive materials.
	Such record shall be maintained for 5 years (WSFC 5603.2).
	Exception: Where only Division 1.4G explosives are handled, records need only be maintained for a period of 3 years.
	The loss, theft or unauthorized removal of explosive materials from a magazine or permitted facility shall be reported to local
	law enforcement authorities and the US Department of Treasury, Bureau of Alcohol, Tabacco, Firearms and Explosives within
	24 hours (WSFC 5603.3).
	<u>Exception:</u> Loss of Division1.4G explosives need not be reported to the Bureau of Alcohol, Tobacco, Firearms and Explosives.
	Accidents involving the use of explosives and explosive materials that result in injuries or property damage should be
	reported immediately (WSFC 5603.4).
	Manufacturers of explosive materials shall maintain records of chemicals, chemical compounds and mixtures required by DOL
	29 CFR Part 1910.1200 and WSFC 407 (WSFC 5603.6).
	Current safety rules covering the operation of magazines, as described in WSFC 5604.7, shall be posted on the interior of the magazine in a visible location (WSFC 5603.7).
Storage	and Handling:
	Explosives and explosive materials, and Division 1.3G fireworks shall be stored in magazines constructed, located, operated,
	and maintained in accordance with the provisions of WSFC 5604 and NFPA 495 or NFPA 1124 (WSFC 5604.2).

	<u>Exception:</u> Portable or mobile magazines n requirements of the IBC.	ot excee	ding 120) square	feet in area	a shall	not be re	quired to	comply	wi	th t	he	
	The storage of explosives and explosive	TABLE 5604.3 STORAGE AMOUNTS AND MAGAZINE REQUIREMENTS FOR EXPLOSIVES, EXPLOSIVE MATERIALS AND FIREWORKS, 1.3G											
	materials in magazines shall comply	STORAGE	AMOUNTS A		IE REQUIREMEN (IMUM ALLOWA				TERIALS AND	FIRI	EWO	RKS,	1.3G
	with the table at right (WSFC 5604.3):	NEW	OLD	ATF/OSHA		INDOOR ^a (pounds)			OUTDOOR	MAGAZINE TYPE REQUIRED			
	Explosive materials classified as Division	UN/DOTn DIVISION	DOTn	CLASS		Cabinat	Sanialdon.	Sprinklers	(pounds)			Τ,	
	1.1 or 1.2 or formerly classified as Class				Unprotected	Cabinet	Sprinklers	& cabinet		1	2	3 4	5
	A by the US DOT shall be stored in Type	1.1 ^b	Α	High	0	0	1	2	1	X	X	K _	
	1, 2 or 3 magazines (WSFC 5604.3.1).	1.2	Α	High	0	0	1	2	1	Х	X	× -	- -
	Exceptions:	1.2	В	Low	0	0	1	1	1	X	X	X X	1 -
	1. Black powder shall be stored in	1.3	В	Low	0	0	5	10	1	Х	X	X	-
	a Type 1, 2, 3 or 4 magazine.	1.4	В	Low	0	0	50	100	1	X	X	X	-
	2. Cap-sensitive explosive	1.5	С	Low	0	0	1	2	1	X	Х	X X	-
	material that is demonstrated not to be bullet sensitive shall	1.5	Blasting Agent	Blasting Agent	0	0	1	2	1	Х	Х	x x	x
	be stored in a Type 1, 2, 3, 4 or	1.6	Not	Not	0	0	1	2	1	X	Х	x x	X
	5 magazine.		Applicable	Applicable									
	Explosive materials that are not cap		or of 10 pour tion 5003.1.2		n shall be used	for conve	rting pounds	s (solid) to ga	illons (liquid)	in a	accor	danc	e
	sensitive shall be stored in a Type 1, 2,				n a Type 1, 2, 3	or 4 maga	zine as provi	ded for in se	ction 5604.3	.`			
	3, 4, or 5 magazine (WSFC 5604.3.2).												
	For quantity and distance purposes, deton	ating co	rd of 50	grains pe	r foot shal	l be cal	culated a	s equiva	lent to 8	ро	und	ds o	f high
	explosives per 1000 feet. Heavier or lighter	r core lo	ads shall	be rated	proportio	nally (\	NSFC 560	04.3.3).					
	Detonators shall be stored in a separate m	agazine	for blast	ing suppl	ies and sha	all not	be stored	l in a ma	gazine wi	th	oth	er	
	explosive materials (WSFC 5604.4).												
	Magazines:	f ovelect	uac and u	مريام دارم	matarials	chall h	ام دانسنا م	to 00000	anaias at		٠	∽ г	11 54
	The use of indoor magazines for storage of or S, and research development laboratori	-		-	materiais	Silali D	e iiiiiiteu	to occup	ancies of	. G	rou	рг,	Π, IVI
	•	•		•	iromonts /	WCEC I	E604 E 1	21.					
	Indoor magazines shall comply with the following construction requirements (WSFC 5604.5.1.2):												
	 Construction shall be fire-resistant and theft restraint. Exterior shall be painted red. Base shall be fitted with wheels, casters, or rollers to facilitate removal from the building in an emergency. 												
	3. Base shall be fitted with wheels, of4. Lid or door shall be marked with of							_	_			h ct	roko
	reading:	conspicu	ous will	e lettern	ig not less	tilali 3	inches ii	igii aiiu i	illillilli	/2	IIIC	11 30	IOKE
		EXPLOS	SIVES—	KEEP FII	RE AWAY	,							
	5. The least horizontal dimension sh	all not e	xceed th	e clear w	idth of the	entra	nce door.						
	Not more than 50 pounds of explosives or	explosiv	e materi	als shall	be stored v	with an	indoor r	nagazine	(WSFC 5	60	4.5	1.3	·).
	Exception: Day boxes used for the storage	of in-pro	cess ma	terial in a	accordance	with \	VSFC 560	4.6.4.1.					
	Indoor magazines shall not be used within	building	s contair	ning Grou	ир R оссир	ancies	(WSFC 5	604.5.1.4	l).				
	Indoor magazines shall be located within 1	.0 feet of	f an entr	ance and	only on fl	oors at	or having	g ramp a	ccess to t	:he	ex	teri	or
	grade level (WSFC 5604.5.1.5).												
	Not more than two indoor magazines shall	be loca	ted in th	e same b	uilding. W	here tv	vo such n	nagazine	s are loca	ate	d ir	th	e
	same building, one magazine shall be used	solely fo	or the st	orage of	not more t	han 5,0	000 deto	nators (V	VSFC 560	4.5	5.1.	6).	
	Where two magazines are located in the sa	ame buil	ding, the	y shall b	e separate	d by a	distance	of not le	ss than 10	O fo	eet	(W	SFC
	5604.5.1.7).												

Outdoo	r Magazines:
	Outdoor magazines other than Type 3 shall be located so as to comply with Table 5604.5.2(2) or 5604.5.2(3) as set forth in Tables 5601.8.1(1) through 5601.8.1(3). Where a magazine or group of magazines, as described in WSFC 5604.5.2.2, contains different classes of explosive materials, and Division 1.1 materials are present, the required separations for the magazine or magazine group as a whole shall comply with Table 5604.5.2(2) (WSFC 5604.5.2).
	□ Separation: Where two or more storage magazines are located on the same property, each magazine shall comply with the minimum distances specified from inhabited buildings, public transportation routes and operating buildings. Magazines shall be separated from each other by not less than the inter-magazine distances (IMD) shown for the separation of magazines (WSFC 5604.5.2.1).
	Grouped Magazines: Where two or more magazines are separated from each other by less than the IMD, such magazines as a group shall be considered as one magazine and the total quantity of explosive materials stored in the group shall be treated as if stored in a single magazine. The location of the group of magazines shall comply with the IMD specified from other magazines or magazine groups, inhabited buildings, public transportation routes and operating buildings (ILD or IPD) as required (WSFC 5604.5.2.2).
ype 3 I	Magazines:
	Wherever practicable, Type 3 magazines shall be located away from neighboring inhabited buildings, railways, highways and other magazines in accordance with Table 5604.5.2(2) or 5604.5.2(3), as applicable (WSFC 5604.5.3.1).
	Type 3 magazines shall be attended when explosive materials are stored within. Explosive materials shall be removed to appropriate storage magazines for unattended storage at the end of the workday (WSFC 5604.5.3.2).
	Not more than two Type 3 magazines shall be located at the same blasting site. Where two Tye 3 magazines are located at the same blasting site, one magazine shall be used solely for the storage of detonators (WSFC 5604.5.3.3).
Constru	ection:
	The ground around a magazine shall be graded so that water drains away from the magazine (WSFC 5604.6.1). Magazines requiring heat shall be heated as prescribed in NFPA 495 by either hot water radiant heating within the magazine or by indirect warm air heating (5604.6.2).
	Where lighting is necessary within a magazine, electric safety flashlights or electric safety lanterns shall be used, except as provided in NFPA 495 (WSFC 5604.6.3).
	In other than Type 5 magazines, there shall not be exposed ferrous metal on the interior of a magazine containing packages of explosives (WSFC 5604.6.4).
	Property on which Type 1 magazines and outdoor magazines of Types 2, 4 and 5 are located shall be posted with signs stating: "NO SMOKING" and "EXPLOSIVES—KEEP OFF".
	These signs shall be of contrasting colors with a minimum letter height of 3 inches with a minimum brush stroke of $\frac{1}{2}$ inch. The signs shall be located to minimize the possibility of a bullet shot at the sign hitting the magazine (WSFC 5604.6.5).
	At the entrance to explosive material manufacturing and storage sites, all access roads shall be posted with the following warning sign or other permitted sign:
	DANGER
	NEVER FIGHT EXPLOSIVE FIRES
	EXPLOSIVES ARE STORED ON THIS SITE
	CALL 911 The sign shall be weather resistant with a reflective surface and have lettering not less than 2 inches high (WSFC 5604.6.5.1).

	Type 5 magazines containing Division 1.5 blasting agents shall be prominently placarded as required during transportation by DOTn CFR Part 172 and DOTy 27 CF Pat 555 (WSFC 5604.6.5.2).
Operati	on:
	Magazines shall be kept locked in the manner prescribed in NFPA 495 at all times except during placement or removal of
	explosives or inspection (WSFC 5604.7.1).
	Smoking, matches, flame producing devices, open flames, firearms, and firearms cartridges shall not be allowed inside of or
	within 50 feet of magazines (WSFC 504.7.2).
	The area located around a magazine shall be kept clear of brush, fried grass leaves, trash, debris, and similar combustible
	materials for a distance of 25 feet (WSFC 5604.7.3).
	Combustible material shall not be stored within 50 feet of magazines (WSFC 5604.7.4).
	Containers of explosive materials, except fiberboard containers, and packages of damaged or deteriorated explosive materials
	or fireworks shall not be unpacked or repacked inside or within 50 feet of a magazine or in close proximity to explosive
	materials (WSFC 5604.7.5).
	 Packages of explosive materials that have been opened shall be closed before being placed in the magazine (WSFC 5604.7.5.1).
	2. Tools used for the opening and closing of packages of explosive materials, other than metal slitters for opening paper, plastic, or fiberboard containers, shall be made of non-sparking materials (WSFC 5064.7.5.2).
	3. Empty containers and paper and fiber packing materials that previously contained explosive materials shall be disposed of or reused in an approved manner (5604.7.5.3).
	Metal tools, other than nonferrous transfer conveyors and ferrous metal conveyer stands protected by a coat of paint, shall not be stored in a magazine containing explosive materials or detonators (WSFC 5604.7.6).
	Magazines shall be used exclusively for the storage of explosive materials, blasting materials, and blasting accessories (WSFC 5604.7.7).
	Corresponding grades and brands of explosive materials shall be stored together and in such a manner that the grade and
	brand marks are visible. Stocks shall be stored so as to be easily counted and checked. Packages of explosive materials shall be stacked in a stable manner not exceeding 8 feet in height (5604.7.8).
Mainte	nance·
	Magazine floors shall be regularly swept and be kept clean, dry, and free of grit, paper, empty packages and rubbish. Brooms
_	and other cleaning utensils shall not have any spark-producing metal parts. Sweepings from magazine floors shall be disposed of in accordance with the manufacturer's permitted instructions (WSFC 5604.8.1).
	Explosive materials shall be removed from the magazine before making repairs to the interior of a magazine. Explosive
	materials shall be removed from the magazine before making repairs to the exterior of the magazine where there is a
	possibility of causing a fire. Explosive materials removed from a magazine under repair shall either be placed in another
	magazine or placed a safe distance from the magazine, where they shall be properly guarded and protected until repairs have
	been completed. Upon completion of repairs, the explosive materials shall be promptly returned to the magazine. Floors shall
	be cleaned before and after repairs (WSFC 5604.8.2).
	Magazine floors stained with liquid shall be dealt with in accordance with instructions obtained from the manufacturer of the explosive material stored in the magazine (WSFC 5604.8.3).
Disnosa	ıl of Explosive Materials:
	Where an explosive material has deteriorated to an extent that it is in an unstable or dangerous condition, or when a liquid
J	has leaked from an explosive material, the person in possession of such material shall immediately contact the materials manufacturer to obtain disposal and handling instructions (WSFC 5604.10.2).

	The work of destroying explosive materials shall be directed by persons experienced in the destruction of explosive materials (WSFC 5604.10.3).
	Explosive materials recovered from blasting misfires shall be placed in a magazine until an experienced person has determined the proper method for disposal (WSFC 5604.10.4)
	Sites for the destruction of explosive materials and fireworks shall be approved and located at the maximum practicable safe distance from inhabited buildings, public highways, operating buildings, and all other exposures to ensure keeping air blast and ground vibration to a minimum. The location of disposal sites shall not be closer to magazines, inhabited buildings, railways, highways, and other rights-of-way than is allowed by Tables 5604.5.2(1), 5604.5.2(2), and 5604.5.2(3). Where possible, barricades shall be utilized between the destruction site and inhabited buildings. Areas where explosives are detonated or burned shall be posted with adequate warning signs (WSFC 5604.10.5).
	Unless an accepted burning site has been thoroughly saturated with water and has passed a safety inspection, 48 hours shall elapse between the completion of a burn and the placement of scrap explosive materials for a subsequent burn (WSFC 5604.10.6).
	Once an explosive burn operation has been started, personnel shall relocate to a safe location where adequate protection from air blast and flying debris is provided. Personnel shall not return to the burn area until the person in charge has inspected the burn site and determined that it is safe for personnel to return (WSFC 5604.10.7).
Manufa	acture, Assembly and Testing:
	The manufacture, assembly, and testing of explosives, ammunition, blasting agents and fireworks shall comply with the requirements of WSFC 5605 and NFPA 495 or NFPA 1124 (WSFC 5605.1). Exceptions:
	1. The hand loading of small arms ammunition prepared for personal use and not offered for resale.
	2. The mixing and loading of blasting agents at blasting sites in accordance with NFPA 495.
	3. The use of binary explosives or phosphoric materials in blasting or pyrotechnic special effects applications in accordance with NFPA 495 or NFPA 1126.
	Emergency plans, emergency drills, employee training and hazard communication shall conform to the provisions of WSFC 404, 405, 406, and 407 (WSFC 5605.2).
	 Explosives manufacturing buildings and fireworks manufacturing buildings, including those where explosive charges are assembled, manufactured, prepared, or loaded utilizing Division 1.1, 1.2, 1.3, 1.4 or 1.5 explosives, shall be separated from all other buildings, including magazines, within the confines of the manufacturing plant, at a distance not less than those shown in Table 5604.5.2(3) or Table 5605.3, as appropriate, and comply with the following: The quantity of explosives in an operating building shall be the net weight of all explosives contained therein. Distances shall be based on the hazard division requiring the greatest separation unless the aggregate explosive weight is divided by approved walls or shields designed for that purpose. Where dividing a quantity of explosives into smaller stacks, a suitable barrier or adequate separation distance shall be provided to prevent propagation from one stack to another.
	4. Where distance is used as the sole means of separation within a building, such distance shall be established by testing. Testing shall demonstrate that propagation between stacks will not result.
	5. Barriers provided to protect against explosive effects shall be designed and installed in accordance with standards (WSFC 5605.3).
	Exception: Fireworks manufacturing buildings separated in accordance with NFPA 1124.
	Where an operating building on an explosive materials plant site is designed to contain explosive materials, such a building shall be located away from inhabited buildings, public transportation routes and magazines in accordance with Table
	5064.5.2(2) or 5604.5.2(3) as appropriate, based on maximum quantity of explosive materials permitted to be in the building
	at one time (WSFC 5605.4).
	Exception: Fireworks manufacturing buildings separated in accordance with NFPA 1124.

	□ Net Explosive Weight: In addition to the requirements of WSFC 5601.8 to determine the net explosive weight for materials stored or used in operating buildings, quantities of explosive materials stored in magazines located at distances less than intraline distances from the operating building shall be added to the contents of the operating building to determine the net explosive weight (WSFC 5605.4.1). Buildings or rooms that exceed the maximum allowable quantity per control area of explosive materials shall be operated in accordance with this section and constructed in accordance with the requirements of the IBC for Group H occupancies (WSFC 5605.5).
	Exception: Fireworks manufacturing buildings constructed and operated in accordance with NFPA 1124
	☐ Explosive dust shall not be exhausted to the atmosphere (WSFC 5605.5.1).
	 Wet Collector: When collecting explosives dust, a wet collector system shall be used. Wetting agents shall be compatible with the explosives. Collector systems shall be interlocked with process power supplies so that the process cannot continue without the collector systems operating (WSFC 5605.5.1.1). Waste Disposal: Explosives dust shall be removed from the collection chamber as often as necessary to
	prevent overloading. The entire system shall be cleaned at a frequency that will eliminate hazardous
	concentrations of explosive dust in pipes, tubing, and ducts (WSFC 5605.5.1.2). Exhaust Fans: Squirrel cage blowers shall not be used for exhausting hazardous fumes, vapors, or gases. Only nonferrous fan blades shall be used for fans located within the ductwork and through which hazardous materials are exhausted. Motors shall be located outside the duct (WSFC 5605.5.2).
	□ Workstations: Workstations shall be separated by distance, barrier, or other alternatives so that fire in one station will not ignite material in another workstation. Where necessary, the operator shall be protected by a personnel shield located between the operator and the explosive device or explosive material being processed. This shield and its support shall be capable of withstanding a blast from the maximum amount of explosives allowed behind it (WSFC 5605.5.3).
	Detonation of explosive materials for testing purposes shall be done only in isolated areas at sites where distance, protection from missiles, shrapnel or fly rock, and other safeguards provides protection against injury to personnel or damage to property (WSFC 5605.8). The detonation of fireworks is prohibited within the City of Vancouver.
	 Protective clothing and equipment shall be provided to protect persons engaged in the testing, ignition, or detonation of explosive materials (WSFC 5605.8.1).
	☐ Where tests are being conducted or explosives are being detonated, only authorized persons shall be present. Areas where explosives are regularly or frequently detonated or burned shall be approved and posted with adequate warning signs. Warning devices shall be activated before burning or detonating explosives to alert persons approaching from any direction that they are approaching a danger zone (WSFC 5605.8.2).
	Disposal of explosive waste from manufacturing, assembly or testing operations shall be in accordance with WSFC 5604.10 (WSFC 5605.9).
Operati	ioner.
регаці П	Where the type of material and processing warrants, mechanical operations involving explosives in excess of 1 pound shall be
	carried on at isolated stations or at intraplane distances, and machinery shall be controlled from remote locations behind barricades or at separations so that workers will be at a safe distance while machinery is operating (WSFC 5605.6.1).
	The work area where the screening, grinding, blending and other processing of static-sensitive explosives or pyrotechnic materials is done shall be provided with approved static controls (WSFC 5605.6.2).
	Bulk explosives shall be kept in approved, non-sparking containers when not being used or processed. Explosives shall not be
_	stored or transported in open containers (WSFC 5605.6.3).
	The quantity of explosives at any particular workstation shall be limited to that posted on the load limit signs for the individual workstation. The total quantity of explosives for multiple workstations shall not exceed that established by the intraplane distances in Table 5604.5.2(3) or Table 5605.3, as appropriate (WSFC 5605.6.4).

	1. Magazines used for storage in processing areas shall be in accordance with the requirements of Section 5604.5.1. Explosive materials shall be removed to appropriate storage magazines for unattended storage at the end of the workday. The contents of indoor magazines shall be added to the quantity of explosives contained at individual workstations and the total quantity of material stored, processed, or used shall be utilized to establish the intraplane separation distances indicated by Table 5604.5.2(3) or Table 5605.3, as appropriate (WSFC 5605.6.4.1).
	Approved receptacles with covers shall be provided for each location for disposing of waste material and debris. These waste receptacles shall be emptied and cleaned as often as necessary but not less than once each day or at the end of each shift (WSFC 5605.6.5)
	General safety rules and operating instructions governing the particular operation or process conducted at that location shall be available at each location (WSFC 5605.6.6)
	The number of occupants in each process building and, in each magazine, shall not exceed the number necessary for proper conduct of production operations (WSFC 5605.6.7)
	Not more than 500 pounds of pyrotechnic or explosive composition, including not more than 10 pounds of salute powder shall be allowed at one time in any process building or area. Compositions not in current use shall be kept in covered nonferrous containers (WSFC 5605.6.8) Exception: Composition that has been loaded or pressed into tubes or other containers as consumer fireworks.
	The maximum number of occupants and maximum weight of pyrotechnic and explosive composition permitted in each process building shall be posted in a conspicuous location in each process building or magazine (WSFC 5605.6.9).
	Fireworks, explosives or explosive charges in explosive materials manufacturing, assembly or testing shall not be stored near any source of heat (WSFC 5605.6.10). Exception: Approved drying or curing operations.
Small A	rms Ammunition:
	Indoor storage and display of black powder, smokeless propellants, small arms primers, small arms ammunition, and
	commercial reloading shall comply with WSFC 5606 and NFPA 495 (WSFC 5606.1).
	Small arms ammunition shall not be stored together with Division 1.1, Division 1.2, or Division 1.3 explosives unless the storage facility is suitable for the storage of explosive materials (WSFC 5606.2).
	Smokeless propellants shall be stored in approved shipping containers confirming to DOT 49 CFR Part 173 (WSFC 5606.3).
	☐ Repackaging: The bulk repackaging of smokeless repellants, black powder and small arms primers shall not be performed in retail establishments (WSFC 5606.3.1).
	□ Damage: Damaged packages shall not be repackaged (WSFC 5606.3.2).
	<u>Exception:</u> Approved repackaging of damaged containers of smokeless propellant into containers of the same type and size as the original container.
	Black powder for personnel use in quantities not exceeding 20 pounds shall be stored in original containers in occupancies limited to Group R-3. Quantities exceeding 20 pounds shall not be stored in any Group R occupancy (WSFC 5606.4.1).
	Smokeless propellants for personnel use in quantities not exceeding 20 pounds shall be stored in original containers in occupancies limited to Group R-3. Smokeless propellants in quantities exceeding 20 pounds but not exceeding 50 pounds and kept in a wooden box or cabinet having walls of not less than 1-inch nominal thickness shall be allowed to be stored in occupancies limited to Group R-3. Quantities exceeding these amounts shall not be stored in any Group R occupancy (WSFC 5606.4.2).
	Not more than 10,000 small arms primers shall be stored in occupancies limited to Group R-3 (WSFC 5606.4.3).
	Not more than 20 pounds of smokeless propellants, in containers of 1 pound or less capacity each, shall be displayed in Group M occupancies (WSFC 5606.5.1.1).
	Not more than 1 pound of black powder shall be displayed in Group M occupancies (WSFC 5606.5.1.2).
	Not more than 10,000 small arms primers shall be displayed in Group M occupancies (WSFC 5606.5.1.3).
	Commercial stocks of smokeless propellants shall be stored as follows (WSFC 5606.5.2.1):

1.	. Quantities exceeding 20 pounds, but not exceeding 100 pounds shall be stored in portable wooden boxes having		
	walls of not less than 1-inch nominal thickness.		
2.	. Quantities exceeding 100 pounds, but not exceeding 800 pounds, shall be stored in nonportable storage cabinets		
having walls not less than 1-inch nominal thickness. Not more than 400 pounds shall be stored in any one cabinet,			
and cabinets shall be separated by a distance of not less than 25 feet or by a fire partition having a fire-resistance			
rating of not less than 1 hour.			
3. Storage of quantities exceeding 800 pounds, but not exceeding 5,000 pounds in a building shall comply with		quantities exceeding 800 pounds, but not exceeding 5,000 pounds in a building shall comply with all of	
the following:		ring:	
		The warehouse or storage room is not open to unauthorized personnel.	
		Smokeless propellant shall be stored in nonportable storage cabinets having wood walls not less than 1-	
		inch nominal thickness and having shelves with not more than 3 feet of separation between shelves.	
		Not more than 400 pounds is stored in any one cabinet.	
		Cabinets shall be located against walls of the storage room or warehouse with not less than 40 feet	
		between cabinets.	
		The minimum required separation between cabinets shall be 20 feet provided that barricades twice the	
		height of the cabinets are attached to the wall, midway between each cabinet. The barricades must	
		extend not less than 10 feet outward, be firmly attached to the wall and be constructed of steel not less	
		than ¼-inch thick, 2-inch nominal thickness wood, brick, or concrete block.	
		Smokeless propellant shall be separated from materials classified as combustible liquids, flammable	
		liquids, flammable solids, or oxidizing materials by a distance of 25 feet or by a fire partition having a	
		fire-resistance rating of 1 hour.	
		The building shall be equipped throughout with an automatic sprinkler system installed in accordance	
		with WSFC 903.3.1.1.	
4. Smokeless propellants not stored in accordance with Item 1, 2, or 3 shall be stored in a Type 2 or 4 magazine in			
accordance with WSFC 5604 and NFPA 495.			
		s. Quantities greater than 50 pounds shall be stored in outdoor Type 2 or 4 magazines. Where black powder	
and smokeless propellants are stored together in the same magazine, the total quantity shall not exceed that permitted for			
•	owder (560	·	
1.		s not to exceed 750,000 small arms primers stored in a building shall be arranged such that not more than	
		mall arms primers are stored in any one pile and piles are not less than 15 feet apart.	
2.		s exceeding 750,000 small arms primers stored in a building shall comply with all of the following:	
		he warehouse or storage building is not open to unauthorized personnel.	
		mall arms primers shall be stored in cabinets. Not more than 200,000 small arms primers shall be stored in	
		ny one cabinet.	
		helves in cabinets shall have vertical separation of not less than 2 feet.	
		Cabinets shall be located against walls of the warehouse or storage room with not less than 40 feet between	
		abinets. The minimum required separation between cabinets shall be allowed to be reduced to 20 feet	
	-	provided that barricades twice the height of the cabinets are attached to the wall, midway between each	
		abinet. The barricades shall be firmly attached to the wall and shall be constructed of steel not less than ¼ - nch thick, 2-inch nominal thickness wood, brick, or concrete block.	
		mall arms primers shall be separated from materials classified as combustible liquids, flammable liquids,	
		lammable solids, or oxidizing materials by a distance of 25 feet by a fir partition having a fire-resistance	
		ating of 1 hour.	
	- 10	acing of ± nown.	

	 The building shall be protected throughout with an automatic sprinkler system installed in accordance with WSFC 903.3.1.1.
	3. Small arms primers not stored in accordance with Item 1 or 2 of this section shall be stored in a magazine meeting the requirements of WSFC 5604 and NFPA 495.
Blasting	
	All blasting operations shall be conducted only by approved, competent operators familiar with the required safety
	precautions and the hazards involved and in accordance with the provisions of NFPA 495. All operations shall be performed in
	accordance with the instructions of the manufacturer of the explosive materials being used (WSFC 5607.1 and 5607.2).
	Where blasting is done in a congested area or in close proximity to a structure, railway or highway, or any other installation,
	precautions shall be taken to minimize earth vibrations and air blast effects. Blasting mats or other protective means shall be
	used to prevent fragments from being thrown (WSFC 5607.3).
	Surface blasting operations shall only be conducted during daylight hours between sunrise and sunset. Other blasting shall be
	performed during daylight hours unless otherwise approved (WSFC 5607.4).
	Where blasting is being conducted in the vicinity of utility lines or rights-of-way, the blaster shall notify the appropriate
	representatives of the utilities not less than 24 hours in advance of blasting. Specifying the location and intended time of such
	blasting. Verbal notices shall be confirmed with written notice (WSFC 5607.5).
	Exception: In an emergency situation, the time limit shall not apply where approved.
	Precautions shall be taken to prevent accidental discharge of electric detonators from currents induced by radar and radio transmitters, lightning, adjacent power lines, dust and snowstorms, or other sources of extraneous electricity. For nonelectric
	detonators, precautions shall be taken to prevent accidental initiation from stray currents (WSFC 5607.6 and 5607.7).
	During the time that holes are being loaded or are loaded with explosive materials, blasting agents or detonators, only
	authorized persons engaged in drilling and loading operations or otherwise authorized to enter the site shall be allowed at the
	blast site. The blast site shall be guarded or barricaded and posted. Blast site security shall be maintained until after the post-
	blast inspection has been completed (WSFC 5607.8).
	Holes drilled for the loading of explosive charges shall be made and loaded in accordance with NFPA 495 (WSFC 5607.9). After loading for a blast is completed and before firing, excess explosive materials shall be removed from the area and
	returned to the proper storage facilities (WSFC 5607.10).
	The blaster shall supervise the connection of the blastholes and the connection of the load line to the power source or
	initiation point. Connections shall be made progressively from the blasthole back to the initiation point. Blasting lead lines
	shall remain shunted and shall not be connected to the blasting machine or other source of current until the blast is to be
	fired (WSFC 5607.12).
	A blast shall not be fired until the blaster has made certain that all surplus explosive materials are in a safe place in
	accordance with WSFC 5607.10, all persons and equipment are at a safe distance under sufficient cover and that an adequate
	warning signal has been given (WSFC 5607.13).
	After the blast, the following post blast procedure shall be observed (WSFC 5607.14):
	1. Persons shall not return to the blast area until allowed to do so by the blaster in charge.
	2. The blaster shall allow sufficient time for smoke and fumes to dissipate and for dust to settle before returning to or
	approaching the blast area.
	3. The blaster shall inspect the entire blast site for misfires before allowing other personnel to return to the blast area.
	Where a misfire is suspected, all initiating circuits shall be traced, and a search made for unexploded charges. Where a misfire
	is found, the blaster shall provide proper safeguards for excluding all personnel from the blast area. Misfires shall be reported
	to the blasting supervisor immediately. Misfires shall be handled under the direction of the person in charge of the blasting
	operation in accordance with NFPA 495 (WSFC 5607.15).

Fireworks Display:					
☐ See Table WSFC Table 5604.3 (above) for magazine requirements.					
□ Use of pyrotechnics before a proximate audience. Where the separation distances required in Section 5608.4 and NFPA 1123 are unavailable or cannot be secured, fireworks displays shall be conducted in accordance with NFPA 1126 for proximate audiences. Applications for use of pyrotechnics before a proximate audience shall include plans indicating the required clearances for spectators and combustibles, crowd control measures, smoke control measures and requirements for standby					
personnel and equipment where provision of such personnel or equipment is required by the fire code official. Approved fireworks displays shall include only the approved fireworks 1.3G, fireworks 1.4G, fireworks 1.4S and pyrotechnic articles 1.4G, which shall be handled by an approved, competent operator. The approved fireworks shall be arranged, located,					
discharged, and fired in a manner that will not pose a hazard to property or endanger any person.					
☐ Storage shall be protected from weather and shall be attended at all times that they are on site.					
 Damage fireworks shall not be used. Exception: Minor repairs to fuses shall be allowed. For electrically ignited displays, attachment of electric matches and similar tasks shall be allowed. 					
 Ready boxes shall be located upwind and not less than 25 feet (7.62 meters) from the mortar placement and shall be separated according to their size and designations. 					
Exception: For electrically fired fireworks displays, or fireworks displays where all shells are loaded into mortars prior to the show, separation of shells according to their size, their designation as salutes or for the use of ready boxes is not required.					
☐ Mortars for firing fireworks shells shall be installed in accordance with NFPA 1123 and shall be positioned so that shells are					
propelled away from spectators and over the fallout area. Mortars shall not be angled toward the spectator viewing area. Prior to placement, mortars shall be inspected for defects, such as dents, bent ends, damaged interiors, and damaged plugs. Defective mortars shall not be used.					
☐ Handling of aerial shells shall be by the shell body until loaded into the mortars.					
Changes in conditions. When in the opinion of the fire code official or the operator that a hazardous condition exists, the fireworks display shall be immediately discontinued, until or unless the condition changes. Examples: increased wind speed, change of wind direction, lightning storms, or similar unplanned conditions.					
□ Post-fireworks display. After the fireworks display, the firing crew shall conduct an inspection of the fallout area for the purpose of locating unexploded aerial shells or live components. This inspection shall be conducted before public access to the site shall be allowed. Where fireworks are displayed at night and it is not possible to inspect the site thoroughly, the operator or designated assistant shall inspect the entire site at first light. Site security and attendance shall be maintained until the inspection is completed.					
An accountability report identifying any shells that fail to ignite in, or discharge from, a mortar or fail to function over the fallout area or otherwise malfunction, shall be filed with the fire code official.					
Shells that fail to launch or explode shall not be handled until not less than 15 minutes have elapsed from the time the shells were fired. The fireworks shall then be doused with water and allowed to remain for not less than 5 additional minutes before being placed in a plastic bucket or fiberboard box. The disposal instructions of the manufacturer as provided by the fireworks supplier shall then be followed in disposing of the fireworks in accordance with Section 5604.10.					
☐ The operator shall request a post-fireworks-display inspection by the code official prior to reimbursement of any financial bonds required by the City of Vancouver.					
The owner/operator shall be responsible to maintain compliance with all applicable Federal, State, and local laws, regulations and standards for fire and life safety, including, but not limited to International Fire Code chapter 56, DOTn 49 CFR parts 100-185, NFPA					

NOTE: This is not intended to be an all-inclusive list. The WSFC requirements listed are intended to ensure that we have adequate information to begin a review of the application, and so that the applicant understands their responsibilities.

495, NFPA 498, NFPA 1122, NFPA 1125, NFPA 1127, NFPA 400, RCW 70.74 and RCW 70.77.

Additional information may be required, and additional conditions may apply.						
This permit is not transferrable to another type or size of material, operator, owner, location, or date(s).						
I understand that all applicable codes apply and that other regulatory codes may also apply. Errors and/or omissions on the plans and corrections from field inspections are the responsibility of the owner/operator. All work is subject to compliance with City of Vancouver ordinances and laws of the State of Washington.						
APPLICANT NAME:	_APPLICATION DATE:					
APPLICANT SIGNATURE:						