



APPLICATION FORM

Outdoor pyrotechnic display
written agreement and notification
H4-2a FM

Complete this form when seeking Fire Service written agreement for an outdoor pyrotechnic display. Your answers should reflect the complexity and size of the display and should have been reached in conjunction with appropriate parties such as the event organiser, building or land owner.

Email the completed form and supporting documentation to fireinfo@fire.org.nz

Section A – Contact details	
Person in charge of display	[REDACTED]
Address of person in charge	[REDACTED]
Contact phone number	[REDACTED] Mobile phone number [REDACTED]
Fax or email	info@pyrointernational.com
Confirmation	<p>Name: [REDACTED] Signature: [REDACTED]</p> <p>I confirm a site inspection post firing will be conducted to ensure no subsequent fire occurs.</p> <p>Privacy Statement</p> <p>Personal information you provide in this application form will be collected, used, and held by the Fire Service in accordance with the Privacy Act 1993. The information will be used to assess and determine your application for the Fire Service's agreement to your proposed pyrotechnic display. You have the right to ask for a copy of any personal information we hold about you, and to ask for it to be corrected if you think it is wrong. If you'd like to ask for a copy of your information, or to have it corrected, please contact us at question@fire.org.nz</p>

Section B – Pyrotechnic display information requirements	
Physical address of display	Manukau Velodrome
Latitude and longitude (marine locations)	Location display fired from, if known, e.g., barge, shore. Latitude and longitude details essential for maritime/marine locations. -36.981423, 174.886484
Display:	Date: 30th september 2017 Time: 09:00 pm



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Section C – Supporting documentation

Attach a display plan that is scaled, marked and labelled with the:

- discharge area
- exclusion zone
- position of firing points, number of firings from each point, and direction of flight of pyrotechnics
- audience location and evacuation routes
- position, number and types of firefighting equipment
- buildings within the exclusion zone if applicable.

Details of arrangements for identifying exclusion zone

If the firing involves a display height over 60 m, describe the arrangements for the treatment or safeguarding of the ground and any vegetation so that a fire cannot spread more than five metres from the point of ignition/initiation.

During the display our team will be equip with fire fighting equipment such as water spritzers and fire extinguishers. these staff will be situated around the exclusion zone.

For Official New Zealand Fire Service use only

To be completed by the Area Manager

Additional firefighting capability specified by an Area Manager

No additional Requirements

Written agreement of the Area Manager

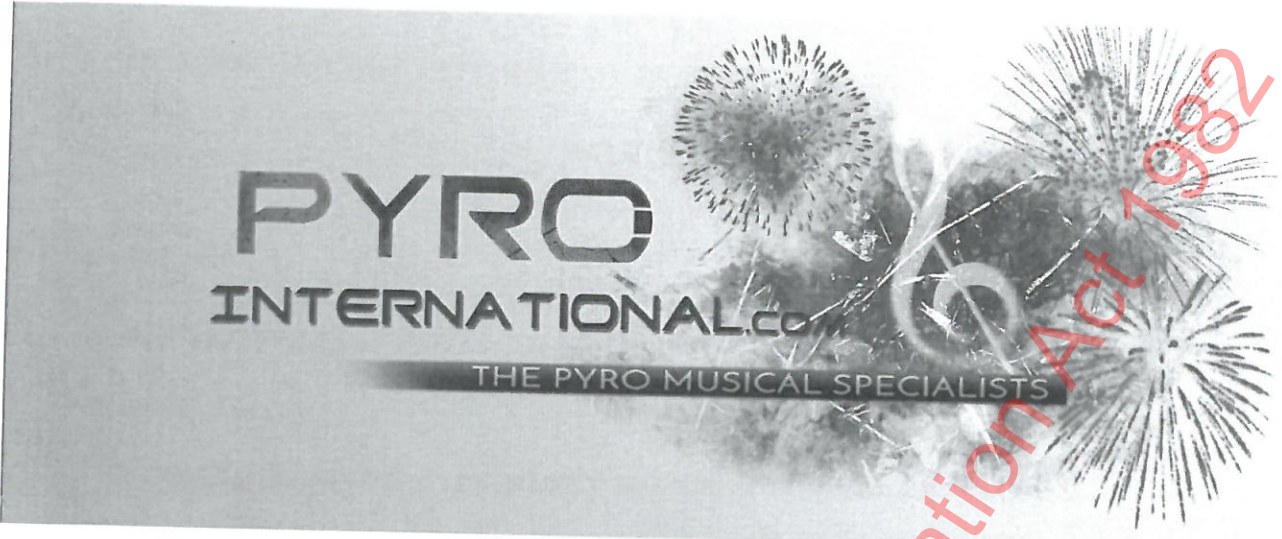
Note: This application is not subject to variation once signed. A variation requires a new written agreement.

Name	R. Watson	Date	
Position	SFR MO		
Area	Counties Manukau	Region	

Fire and Emergency NZ
 COUNTIES MANUKAU FIRE AREA
 - 18 SEP 2017 -
 Sign: FIRE RISK MANAGEMENT

I agree to the above outdoor display in accordance with the *Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001, clause 39(2)*

Signature



*Pyro International Limited OPD
Application
Manukau Diwali*



Fire and Emergency NZ
COUNTIES MANUKAU FIRE AREA
18 SEP 2017
Sign: FIRE RISK MANAGEMENT

Released under the Official Information Act 1982

APPLICATION FORM PYROTECHNICS DISPLAY

WORKSAFE
NEW ZEALAND | KAWHI HAUHARAU
AOTEAROA

WORKSAFE
NEW ZEALAND | KAWHI HAUHARAU
AOTEAROA

Application for an Outdoor Pyrotechnics Display Test Certificate

See regulation 40 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001.

A list of Test Certifiers is available at: [HYPERLINK
"http://www.cpa.govt.nz/search-databases/Pages/testcertifiers-search.aspx"](http://www.cpa.govt.nz/search-databases/Pages/testcertifiers-search.aspx)
<http://www.epa.govt.nz/search-databases/Pages/testcertifiers-search.aspx>

Select the Explosives/Fireworks option before beginning your search.

Person with overall responsibility for the display

Full name

Company

Pyro International Limited

Address

Home phone number

Work phone number

Mobile phone number

Email info@pyrointernational.com

Client Details

Full name

Company Radio Tarana

Address Level 1, 155 New North Road, Eden Terrace Auckland.

Work phone number

Mobile phone number



Email

Consent of owner of property or owner's delegate

Owner's full name

Address

Home phone number

Work phone number

Mobile phone number

Email

Signature

Date

Approved handler in charge of the display pyrotechnics

Full name

Address

Home phone number

Work phone number

Mobile phone number

Email info@pyrointernational.com

**Test certificate details of approved handler in charge
(attach a copy AND complete the following):**

Approved handler test certificate number AHP045

Expiry date 7/7/2021

Valid for hazard class 1.1G 1.2G 1.3G 1.4G (strike out any that do not apply)

Level of Approved Handler (see final page for a list of pyrotechnic articles available at each Level)



Name of Test Certifier who issued the approved handler test certificate

Details of the Display

Display location (provide GPS coordinates if known) -36.887164, 174.805845

Date of display 30/9/2017

Time of display 09:00pm - 10:00pm

Postponement date(s)

Type of firings (indoor, outdoor or both) Outdoor

Number of firings (actual number of pyrotechnic articles to be used in the display)

Address of display (include city and postal code)

Additional People

List others who will participate under the direct supervision of the approved handler in charge. Include other approved handlers and candidates for approved handler test certificates.

Name(s)

Test Certificate Number(s) (if relevant)

Pyrotechnics Supplier

Company name Thumping Thunder Fireworks, Black powder Fireworks

Address PO BOX 104 HELENSVILLE 0800 AUCKLAND NEW ZEALAND

Mobile phone number

Email ttpnz@hotmail.co.nz



Display Plan

A copy of the display plan must be attached and include:

- A site plan of the discharge area and the exclusion zone, including any exclusion zone for indoor pyrotechnics as required under regulation 45(2)(d) of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001;
- Details of arrangements for identifying and securing discharge area and exclusion zone;
- The name of the manufacturer, and the size, type and number of pyrotechnic articles to be used;
- Details of positioning of firing points and mortar tubes and the methods of firing;
- The names and responsibilities of all authorised persons operating the display;
- An indication that the requirements of regulation 42 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001 will be met;
- Where indoor pyrotechnics are used, an indication that the requirements of regulation 45(4)(b) of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001 will be met;
- In the case of aerial displays over 60m in height, an indication that the requirements of regulation 43 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001 will be met.

Approvals

(refer regulation 39 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001)

Prior written approval of the display must be obtained from the following agencies (where relevant). Refer to the Code of Practice for Outdoor Pyrotechnic Displays for details on when and how to apply for these approvals.

A. NZ Fire Service (for displays within an urban fire district)

Application for approval made (circle one) **Yes/No**

Written approval obtained (circle one) **Yes/No**

If approval has already been obtained, attach a copy of the approval to this application form.

The application form is available on the NZ Fire Service website <http://www.fire.org.nz>

B. A rural fire authority (RFA) (for displays in rural areas)

Application for approval made (circle one) **Yes/No**

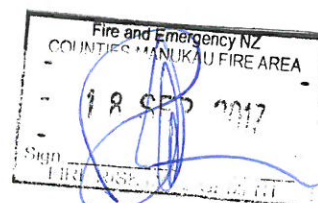
Written approval obtained (circle one) **Yes/No**

If approval has already been obtained, attach a copy of the approval to this application form.

The application form is available on the NZ Fire Service website <http://www.fire.org.nz> (NB your application will need to be forwarded to the Rural Fire Authority for approval. See www.nrfa.org.nz)

C. Civil Aviation Authority (CAA) or Air Traffic Control (ATC) Authority as relevant

Depending on the location of the display, prior written approval must be obtained from either CAA or the local ATC authority. Refer to HSNO Code of Practice 30-2 for Outdoor Pyrotechnic Displays on our website (www.worksafe.govt.nz) for information on which air safety agency to approach for permission in any given circumstance. CAA and ATC contact details are also provided in the COP.



Application for approval made (circle one) **Yes/No**

Written approval obtained (circle one) **Yes/No**

If approval has already been obtained, attach a copy of the approval to this application form.

D. Harbourmaster (for displays on or over water)

Application for approval made (circle one) **Yes/No**

Written approval obtained (circle one) **Yes/No**

If approval has already been obtained, attach a copy of the approval to this application form.

Notifications

(refer regulation 39 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001)

The following agencies must be notified of the display at least three working days before the display. Refer to the Code of Practice for Outdoor Pyrotechnic Displays for further details on notification requirements or contact a test certifier for advice on pre-display notification requirements.

A. WorkSafe New Zealand

Notification made (circle one) **Yes/No**

If yes, attach a copy of notification advice

B. Maritime New Zealand (for displays on or over water)

Notification made (circle one) **Yes/No**

If yes, attach a copy of notification advice

Signature

Pursuant to the Hazardous Substances and New Organisms (HSNO) Act 1996, the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001, and the Code of Practice for Outdoor Pyrotechnic Displays (HSNOCOP30-2), I hereby make an application for a test certificate for an outdoor pyrotechnics display:

Printed name of Applicant [REDACTED]

Signature of Applicant [REDACTED]

Date 2/9/2017

CHECKLIST

Have you attached:

Copy of the display plans

Copy of the approved handler test certificate

Copies of the necessary approvals and notifications



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Product list Total

100 x 3" Shells

20 x 5 " Shells

5 x Display Cakes

Safety Equipment list

5 x Fire Extinguishers

3 x water spritzers

1 x First Aid Kit including burn kit

1 x chilli bin with icy water in case of burns

UHF Walkie talkies

Ear plugs

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Google Earth

Imagery Date: 6/2/2016 30° 58' 49" S 174° 55' 20" E elev. 27 m error: 4.54 m

Fire and Emergency NZ
COUNTIES MANUKAU FIRE AREA
- 18 SEP 2017 -
Sign: FIRE RISK MANAGEMENT

APPROVED HANDLER TEST CERTIFICATE

Issued pursuant to Section 82 of the Hazardous Substances and New Organisms Act 1996

Name: [REDACTED]

Date of Birth: [REDACTED]

Residential contact details:

[REDACTED]

Telephone: [REDACTED]

Work contact details:

Pyro International

[REDACTED]

Telephone: [REDACTED]

This certificate is issued in accordance with Regulation 5 of the Hazardous Substances and New Organisms (Personnel Qualifications) Regulations 2001. This certifies that the handler has met the relevant requirements for the substances and lifecycles specified below:

Substances/Classes:

Explosives - Pyrotechnics
Class 1.3G, 1.4G, 1.4S

Lifecycles:

Storage, Use, Disposal

Conditions:

1. Unless surrendered or revoked beforehand, this certificate shall remain in force until 7/7/2021 and may be renewed thereafter by an authorised test certifier.
2. This certificate must be produced at the request of an enforcement officer appointed under the HSNO Act 1996.
3. Star Shells up to 125mm

Special conditions:

The certificate is limited to handlers in control of substances used in:

Outdoor pyrotechnic displays

Indoor pyrotechnic displays

The certificate is limited to handlers in control of:

Level 1

Level 2

Level 3

The certificate is limited to handlers in control of the following display types:

Hand fired

Electrically fired

General outdoor

Elevated position

Floating vessels and floating platforms

Moving platforms

Aircraft

Stadiums



Aaron Donald
Test Certifier Registration # 301

Certificate: AHP045
Issue date: 8/7/2016

4D Target Court, Glenfield Auckland NZ

Phones: [REDACTED]

Fax: [REDACTED]

Mobile: [REDACTED]

Email: info@hazsubs.co.nz

Website: www.hazsubs.co.nz



Fire and Emergency NZ
COUNTIES MANUKAU FIRE AREA

18 SEP 2017

Sign: FIRE RISK MANAGEMENT

Firework Display Check List

Display date: 30 September 2017

Check list:

1. Plan of discharge area
2. Area to be secured by [REDACTED]
3. All display shells will be fired in mortar tube bundles of 50, the racks will be placed 1 metre apart. The cakes and candles will be placed on the ground and secured with pyro International cake racks all wooden. All products will be covered leading up to ignition for rain protection.
4. All products will be fired by remote control and electric ignition method. Power won't be available to the product until 10 minutes to firing; [REDACTED] will operate the remote firing systems.
5. All burnt product will be watered down 20 minutes after firing and cleaned and removed off the site.
6. All mortars and display shells will be used in accordance with regulation 43 of the Hazardous Substances Regulations 2001.
7. All pyrotechnic products will be dealt with in accordance with regulation 42 of the Hazardous Substances Regulations 2001.
8. [REDACTED] will be in charge of the display and will make the decision to go ahead with the display having regard to the weather conditions on the evening of the event. [REDACTED] holds a current Approved Handler Test Certificate with a level two category.
9. The cakes, display shells are products supplied from Black Dragon Fireworks and Thumping Thunder Pyrotechnics, Black Powder Fireworks and imported via China.
10. All relevant parties have been informed as a safety precaution and as a matter of courtesy, notified parties include:
 - Auckland Fire Department
 - Worksafe
 - Auckland Airport airport

All safety precautions will be taken to provide a safe exciting display. There will be a number of staff with fire fighting gear including:

Total	Description
3	15 L Water Spritzers
5	4kg Fire Extinguisher
0	Water Trailer Unit
0	Fire Engine
4	Torches
1	1 st Aid Kit
1	Ear Plugs set
0	Event Fire Hoses

The event will only go ahead if the wind is below 30 kmph and the certified handler deems it safe enough to fire. There will be a number of static guards available at the event to keep patrons away from the exclusion zone. Once the display has been fired, and a 20 minute cool down period has ended, (approved handler)



will inspect the burn product, water down any hot spots and the area will then be cleared of debris.

Pyro International fireworks

HEALTH & SAFETY MANAGEMENT SYSTEM

Pyro International Fireworks Health and Safety Commitment

Pyro International is committed to providing the highest level of health and safety to its employees, contractors, clients and the general public.

General Health and Comfort

On a pyrotechnics site, where work may start early in the morning and continue until late that night, all staff should be prepared for the complete range of climatic conditions. When packing equipment for shows, allow space for comfort and protection equipment.

Personal Protective Equipment:

- Clothing worn while firing must be non-synthetic (synthetic clothing can melt with sparks). Cotton clothing is ideal and suitable for all weather conditions. It is recommended cotton overalls must be long enough to make sure that sparks do not fall into shoes. An economical way of making clothes more fire-resistant is to wash the overalls on the day of the show, but not to dry them fully. Store them slightly damp in a plastic bag. For maximum safety, use fire resistant overalls.
- Sturdy footwear – boots recommended. Changes of footwear and socks.
- Gloves for handling wire and heavy tools, firing and dirty cleanup. While leather gauntlets or gardening gloves are very fire resistant, some are heavy and make movement clumsy. Cotton gardening gloves that have been dampened and wrung out beforehand are recommended.
- Safety glasses and if applicable, personal eye glasses.
- Hearing protection – ear muffs or ear plugs sufficient to ensure the handlers are not subjected to more than 120 db (peak) during the display.
- Safety helmets (full faced when hand firing).
- Head torches.
- Sun glasses.
- Hats for sun and glare protection, which are secure in the wind. Wool hats in cold conditions.
- Raincoat - the tunics which some people make using light plastic bags can be very convenient for light rain.
- If hand firing, the use of a polycarbonate shield fitted to the arm is recommended.
- Personal drink bottle and backup supplies of water.
- Personal medication and items for personal comfort.
- Life jackets, when necessary.
- Personal tool kit (personal tools are an important factor in maintaining efficiency and reducing frustration).

General Equipment List:

- Light tent/marquee under which to rig pyrotechnics. For safety it must have a very light fabric roof to allow pyrotechnics to tear through it, should they accidentally initiate.
- Table and chairs for meal breaks.
- Large umbrellas for sun, wind and rain, to move from rigging site to rigging site.
- Tables and chairs to allow comfortable rigging and keep people's heads away from pyrotechnics above.
- Substantial plywood clipboards on which to secure rigging lists, to prevent them blowing away.
- Rigging lists written in waterproof writing or done on computer.
- Adequate meals brought in by outside caterers, or pre-packed food kept in chilled containers.
- Late shift of assistants to come and help pack up the show.
- Toilets handy, or a portable toilet.

First Aid requirements:



- Suitable first aid kit. Good selection of bandages and plasters to deal with knife cuts which are common.
- Access to fresh water for treating eye injuries.
- Sunblock and insect repellent

Process for Planning and Reviewing of Health and Safety

Pyro International carries out a full review of its health and safety management system every two years. The results of this review are incorporated into the new updated version.

Training and Supervision

Pyro International trains all its staff and contractors through its *Approved Handler Pyrotechnics* training programme. Continued on site training under direct approved handler supervision is carried out on each job. Employee participation in health and safety practices are encouraged by keeping an open dialogue on and off the job site to refine company safety standards.

Pressures on Crew

The following circumstances can affect working conditions and create pressures on the crew of an outdoor pyrotechnic display:

- Cancellation for whatever reason at a late stage, when a display is fully or partially rigged, will lead to extended working hours to dismantle the show carefully and prepare for dangerous goods freight.
- Display preparations on hold due to waiting to see what the weather will do, means the crew may end up working very hard and fast.
- Bad weather during the day, clearing up in the evening, will also mean pressure on the crew, as the show will be expected to go on, no matter how difficult the preparation.
- Late delivery of pyrotechnics, hardware or meals can be stressful for the crew.
- Changing of the display time due to surrounding events running over time can occur.
- Wind and weather can change abruptly. Knowledge of the prevailing conditions is vital.
- Security must be good so that the crew are not troubled with dealing with this.
- There must be good communication with security and the event organiser in case of security breakdowns.
- There must be good communication with police and control towers if present in case of alteration of show time.

The general organisational matters above must be dealt with well ahead of time. The event organiser should be fully aware of the compromises that may have to be made because of weather, late running and matters beyond the pyrotechnic crew's control. This may include the cancellation of the show because of wind, lightning or general audience discomfort with rain and wind. Cancellation because of security breakdown must also be an option.

Specific Safety Conditions

Internal Fire Prevention – Fire suppression equipment and competent approved handlers will be on site, relative to the fireworks discharge area, firing points, exclusion zones and site buildings, and may be detailed by the Rural Fire Authority/NZ Fire Service to provide fire suppression capabilities to safeguard the firing team, pyro and non-pyro equipment and vegetation within the discharge area and exclusions zones.

External Fire Prevention – Provision will be made by the Approved Handler and Person in Charge of Display to formally notify the NZ Fire Service at least 3 working days before the first firing occurs in the area where the display will occur. The Approved Handler will have a means of calling the NZ Fire Service on 0800 FIREINFO (347 346) from the site.

Fireworks Display – Preparation and discharge of fireworks associated with the display will be conducted in accordance with the HSNO regulations and guidelines detailed in the Code of Practice for Outdoor Pyrotechnic Displays, and the manufacturers recommendations.

Storage – Fireworks will be kept in a covered day box during the performance except as and when required for the preparation of set pieces or discharging individually.

Protecting Fireworks – Fireworks not laid out in readiness for the display shall be kept in a covered day box well back from the ignition area. A heavy canvas tarpaulin will be used as a good cover to protect the fireworks from moisture and falling sparks.



Audit – We will count the number of items to be included in the display before laying it out, and again after the display to ensure that no live fireworks are left behind.

Firing Systems – A firing system will be used to remotely-electrically fire one or more electric matches. A Continuity Tester will be used to test the continuity of electric matches and circuits.

Mortar Tubes – The mortars used for the firing of aerial shells are made of fibreglass and HDPE (High Density Polyethylene) pipe.

Clear Spaces around Displays – The discharge area and exclusion zones shall take into account both the firing points and firing lines of the pyrotechnics being used. The discharge point of display items will be carefully selected to suit venue conditions in order to meet minimum isolation distance requirements from any people, structures, vehicles, boats and aircraft as prescribed within the HSNO regulations. Provision will also be made to secure exclusion zones and an adequate fallout area relative to the viewing audience and any adjacent combustible material.

Display Site – The display area is the immediate area where the fireworks display will be conducted, and includes the discharge site, the fallout area, and the required separation distance from the mortars to spectator viewing areas. The display area does not include spectator viewing or vehicle parking areas.

Discharge Area – The discharge area is the immediate area surrounding the fireworks mortars used during the outdoor fireworks display. Fireworks will only be discharged from within a clearly defined area and that adequate measures will be taken to exclude combustibles, performers and the public from this area. Any dry vegetation within the discharge area will be dampened down prior to any firing.

Exclusion Zone/Fallout Area - The fallout area is the area over which aerial star shells will be fired. The shells burst over this area, and unsafe debris and malfunctioning aerial shells fall into this area. The fallout area is the location where a typical aerial shell dud falls to the ground depending on the wind and the angle or mortar placement.

Risk to Safety – All due precautions shall be taken including either limiting or canceling the show if necessary to prevent any possible injury to persons or damage to property. The event organiser reserves the right to alter the conditions or cancel the pyrotechnic display at any stage in the interest of public safety.

Misfired or Unignited Pyrotechnic Products – The following procedures will be implemented by the approved handler in charge of the display and/or person in charge of the display in the event of a misfire, or suspicion of a misfire, or explosion of pyrotechnic products.

- No one shall approach the misfire area until 60 minutes or more has passed;
- The misfire is not to be touched for 60 min and until the area is totally free of people;
- The area is to be cordoned off to restrict unauthorised entry;
- Misfire cabling is to be disconnected from the firing device and source of ignition removed;
- The cables are to be made safe by twisting together or sources of ignition removed;
- Misfired pyrotechnics must be re-wired or refused and best disposed of by firing it in a manner recommended by the manufacturer in accordance with the Regulations;
- All loose unfired products must be gathered in a suitable container and either be returned to the manufacturer or destroyed in a manner recommended by the manufacturer in accordance with the Regulations;
- Misfired or faulty products must be recorded in the display register and notified to the Department of Labour, the Test Certifier and the manufacturer.

Post Display – On completion of the firework display the approved handler in charge of the display shall ensure the firework display site, discharge area, exclusion zones and fall-out areas are left in a safe condition. Any remaining unfired fireworks will be removed and disposed of in a safe manner.

The firework display site, discharge area, exclusion zones and fall-out areas will be thoroughly searched post firing for any ignited materials, any fireworks that have been overlooked, misfired or the components of which have failed to function and fallen to the ground to ensure no subsequent fire will occur. Any malfunctions of any firework articles associated with the display are to be reported to the Test Certifier. If necessary, the area will be checked again the following morning where available light will allow a thorough search. All debris, wooden stakes, star pickets, wooden frames, mortars and packaging must be removed from the site.



Managing Public Health & Safety

Provision will be made to ensure that the following risk control measures are implemented by the event organiser, the client, the person in charge and the approved handler in charge prior to the commencement of, during and after the fireworks display.

Affected Persons – Provision will be made to ensure that members of the public and people with companion animals who might be affected by the scheduled display are notified at least 7 days and not more than 14 days before the to scheduled display via a mail drop, that a firework display will occur with details of time, location and noting that the display is approved and licensed.

A copy of this notification shall be left in the letterbox of each premises adjoining the display site or that would adjoin the display site apart from an intervening road or public area. The wording also needs to include a reminder to people regarding their pets, livestock, horses, small children, etc. safety and comfort during the display.

Safety & Security - The immediate discharge area (firing point), safety area, and fallout area and exclusion zones shall be restricted from access and be clearly delineated, to reduce the potential for injury. The area of firework display should be continually maintained for fire and general safety. Communications between operators, security staff and the emergency services will be readily available and effective.

Fire & Safety Equipment - All personnel involved in the display shall receive instructions in the use of fire, first aid, and safety and communication equipment in case of an incident.

Access Display Site Area - If a spectator enters the exclusion zones, safety area, display area or fallout area during the fireworks display, or if the security or barriers are ineffective in controlling the crowd, the approved handler in charge will stop the display.

Incident During Display - If an incident occurs during the fireworks display, the emergency plan will be implemented and the fireworks display will be immediately stopped until the approved handler has confirmed that it is safe and appropriate to resume the pyrotechnic display.

Risk to Safety – If the approved handler considers that adverse weather conditions, or environmental factors, hazards or members of the public present are at risk, then the approved handler may suspend, postpone or cancel the pyrotechnic display.

Contractor and Sub-Contractor Management - All contractors and sub-contractors are supervised directly while inside Pyro Internationals job site exclusion zone. All contractors and sub-contractors are required to work within the Health and Safety Employment Act 1992 while working with Pyro International.

Managing Fireworks Display – The approved handler/person in charge will: (a) Commence operations and fire the display only when:

- All notifications, permits and approvals have been undertaken and are in order;
- The anticipated weather conditions present no risk to firing or scene safety;
- Proper set-up and securing of the fireworks and fireworks equipment has been implemented;
- The requirements of the HSNO Act have been observed;
- The requirements of the Health & Safety Act have been observed;
- The risk of harm to people, property and vegetation is at an acceptable level;
- All personnel with duties for the display are ready and in position;
- It is safe to commence the display for the actual conditions;
- The firing area and exclusion zones are cleared of all unauthorised people;
- The firing area and exclusion zone is secure;
- The advertised time for the display has arrived; and
- All devices are ONLY fired upon order or signal of the approved handler.

(b) Cease operations and the display, when:

- It is UNSAFE to continue the display due to actual conditions;
- The firing area and exclusion zone has been breached by people or fauna;



- The risk of harm to people, property and vegetation is below an acceptable level; and
- When electrical storms or lightning are approaching or forecast and move the pyrotechnics crew and public to a safe distance from the materials.

Checklists

Pre-Display Site Checklist

- Wear all personal protective equipment appropriate for setup duties. Establish site security prior to arrival of pyrotechnic materials.
- Discharge, display, and fall out areas are cleared of all unauthorised people prior to loading shells.
- Protect all pyrotechnic materials and launching equipment from inclement weather and keep them dry at all times. No one is in discharge, display, and fall out areas once loading of shells begins.
- Mortars are aimed over fall out area and away from spectators.
- Discharge area is cleared of all persons prior to electrical circuit testing.
- Prohibit smoking material, matches, lighters or open flames within 50 feet of fireworks or pyrotechnic products. Only necessary personnel required to perform the display set up and show shall be allowed at the display site. Prohibit persons in the display site who are under the influence of alcohol, narcotics, or medication that could adversely affect judgment, mobility, or stability.
- No cell phones or radio frequency (RF) generating devices are permitted within the immediate discharge area while electrically ignited fireworks or pyrotechnic devices are prepared, loaded, or set up.
- Verify that all mortars and racks are made of approved materials, and are of sufficient strength, length and durability to allow shells to be propelled to safe deflagration heights. Make sure all mortars, mortar racks, bundles, pre-loaded box items, cakes, candles, and ground displays have been thoroughly inspected and deemed inherently stable.
- Avoid placing any portion of your body over mortars during loading, wiring, or igniting, and immediately after the display has been fired.
- Use safe handling and loading procedures for all pyrotechnic devices. Pre-load larger shells as required.
- Check proper fit of shells in mortars. Designate spotter(s)

Display Site Checklist

- Verify Urban / Rural Fire Services and EMS units are available and ready to respond.
- Establish good communications between crew, event sponsor, person in charge, approved handler, and fire service/EMS units.
- Maintain crowd control, utilising monitors and/or barriers.
- Use all required personal protective equipment (head, eye, hearing, and foot). Wear long sleeved and long legged flame resistant.
- Avoid placing any portion of your body over mortars when manually igniting them. Monitor weather and crowd conditions to maintain safety.
- Comply with directions given by the approved handler, spotters, or NZFS/RFA/EMS units. Use only flashlights or other non-incendiary lighting in firing areas.
- During discharging of shells, operator observes activities to ensure wind and trajectory are adequate and makes adjustments if necessary.
- If a misfire occurs, the firework shall be identified, marked and left undisturbed.

Post-Display Site Checklist

- Wear personal protective equipment appropriate for cleanup duties. Disable any electric firing switches and disconnect all electric cables.
- No one is permitted to enter display, discharge or fall out areas until the approved handler has determined the area is safe and secure.
- After at least 30 minutes, conduct search of the display and fallout areas



Entire display site and fall-out area is to be cleared of all debris at the conclusion of the display with particular care being taken to ensure that there are no misfired items present.

- Entire firing area is inspected by the approved handler and crew to locate any unexploded shells. Follow proper marking and warning procedures for unexploded shells.
- Unfired shells removed and returned directly to the supplier or stored in an approved manner.
- Ensure that all unused live product and duds are accounted for, properly handled, repackaged and secured according to regulations and manufacturer.
- Conduct a second site search at first light.
- Any malfunctions of any firework articles associated with the display are to be reported to Test Certifier and Manufacturer.

Post-Display Notification of Incidents:

Pyro International will complete a Post-Display Notification Form if an incident occurred as a result of conducting that display. One form is to be completed for EACH display. This form must be completed and submitted to the HSNO enforcement officer at the specific regional WorkSafe branch, and copied to EPA New Zealand, within 5 calendar days of the display. In addition, it is a legal requirement to report any incident that resulted in serious harm or death to WorkSafe as soon as possible, in accordance with the requirements of the Health and Safety in Employment Act 1992

WORKSAFE: 0800 030 040
HealthSafety.Notification@worksafe.govt.nz

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