



RESOURCE LIBRARY - TECHNICAL SERVICES
Fireworks and Pyrotechnic Displays

CODE: 07.02.025

EDITION: 1

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FIREWORKS AND PYROTECHNIC DISPLAYS

FEASIBILITY GUIDANCE

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FEASIBILITY STUDY

Before committing to a firework display the following matters need to be considered

1. Date, size of event
2. Resources
3. Managing and Supervising: resources
4. Selection of Fireworks contractor
5. Type of Company
6. Liaison with outside agencies
7. Insurance
8. Facilities

1 DATE, SIZE OF EVENT

When setting the date for the event the following should be considered;

- Weather Conditions
- Local activities in the area - for example festivals, national holidays, sports matches

The size of the event will primarily be based on the physical site. The area should be sufficiently large enough to allow for :

- The distance of the audience from the firing area should be a minimum of 25m
- Fallout zone to the rear of the firing zone of 100 x 150,
- A firing zone of 50m x 25m

The site should be inspected during the day to establish the presence of any over head cables, trees etc.

2 RESOURCES

As with all major events it will be necessary to consider the extent of resources required. Sufficient funds must be made available to cover all necessary safety requirements, contractors, capital items- including for example signs, high visibility clothing, ticket printing and any foreseeable emergencies

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Sufficient staff need to be available to cover the foreseeable tasks including supervision of the following:

- Traffic control
- Crowd control
- Catering
- Security
- Supervision of the firing zone and storage areas
- Staff will need to be made available for training prior to the event.

3 MANAGING AND SUPERVISING

The overall organisation of the event should be the responsibility of one senior individual. They must be provided with sufficient time and supervisory staff, prior to the event to ensure adequate planning can occur.

4 SELECTION OF COMPETENT CONTRACTOR

A competent contractor will need to be consulted early in the feasibility process to establish that a suitable display can be undertaken at the venue.

In some countries trade associations and fireworks manufacturers have established standards and competencies for fireworks display organisers/contractors. Where these are available they should be referred to so that a competent contractor is selected.

The contractor must be able to demonstrate their competence with respect to

- design and setting up of display
- safety of display and handling of fireworks and detonators
- experience of events of a similar type and size
- membership of a trade or manufacturers scheme
- understanding of the key features of safety and controls
- the type of firing devices to be used
- firing time

5 TYPE OF DISPLAY

This will be determined by a range of circumstances, including venue size, purpose of display and funds available. The type of display will affect the safety requirements and it is important to ensure that the safety requirements. The competent

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contractor will be able to advise on the feasibility and type of display that may be possible.

6 LOCAL CODES, RULES AND REGULATIONS

Before organising any event it will be important to establish the existence and relevance of any local laws, codes, regulations or requirements relating to the type of event to be held. A competent contractor will be able to give guidance in this area.

7 LIAISON WITH OUTSIDE AGENCIES

Early liaison with outside agencies and authorities will be required at the feasibility stage to determine

- that any local rules /regulations can be complied with.
- adequate resources are available (e.g. fire brigade support, traffic control)
- approvals (for example in relation to aircraft flight paths) will be possible

8 INSURANCE ISSUES

Enquiries should be made to ensure that appropriate insurance is possible covering:

- injury to persons
- damage to property
- cancellation (fees and admission returns if applicable)

9 FACILITIES

The adequacy and nature of facilities needs to be determined as part of the feasibility study. These will include some/all of the following:

- Catering arrangements
- Fire-fighting equipment
- Car parking availability
- Toilets
- First aid provision/accommodation
- Electrical supplies