

## Risk Assessment

Event / Location : Wickham St Pauls Annual Fireworks display, WSP Village Green  
Date of Event: 18/10/25

Equipment / Effect : Fireworks as defined by UN categorisation

Description of Effect:-

Non Proximate Articles Pyrotechnic for Entertainment Purposes

| Date of assessment | Scheduled review date | Assessed by                                |
|--------------------|-----------------------|--|
| 20/09/2025         | 23/09/2026            | M.Cooper                                   |
| 23/09/2025         | 23/09/2026            | D.Cooper (persons of specialist knowledge) |
|                    |                       |  |

| Hazard/Activity/Materials   | Who may be harmed?   | Risk Rating<br>(Likelihood x Severity = Risk) |   |   |
|---|--|---|---|---|
| <b>1. Storage of Flammable and/or hazardous substances</b> <ul style="list-style-type: none"> <li>Fire</li> <li>Contact with flammable and/or hazardous substances</li> </ul> | <ul style="list-style-type: none"> <li>Crew/Operator</li> <li>Members of the Public</li> </ul> | 2   | 4 | 8 |

### Hazard Control Measures

- Fireworks to be stored on site in accordance with HSE regulations.
- Fireworks to be 'rigged' and operated by trained operators.
- Firing site to be limited to smallest possible safe area and manned once rigged to stop unauthorised persons entering firing zone
- Hazard tape and Luminous orange fencing to be used to define exclusion zone
- No unauthorised access to pyro store and venue management will be informed of this necessity.
- Appropriate PPE to be worn during use and handling.
- Only trained and experienced operators to handle pyrotechnics.

Residual Risk Rating following the implementation of Hazard Control measures

1

4

4

| Hazard/Activity/Materials | Who may be harmed? | Risk Rating<br>(Likelihood x Severity = Risk) |  |  |
|---------------------------|--------------------|---|--|--|
|---------------------------|--------------------|---|--|--|

## Risk Assessment

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|--|---|---|---|----|
| <b>2. Use of explosive pyrotechnical devices and/or flammable substances</b> <ul style="list-style-type: none"> <li>Toxic/unpleasant vapours, smoke build up</li> <li>Fire and explosions</li> <li>Destruction of property</li> <li>Injury to persons</li> </ul> | <ul style="list-style-type: none"> <li>ALL</li> </ul> | 2 | 5 | 10 |
|  |   |   |   |    |

### Hazard Control Measures

- Only trained and experienced crew to use and fire the equipment and pyrotechnic effects.
- Pyrotechnics to be stored in accordance with HSE regulations.
- Appropriate PPE to be worn during use and handling.
- Quantities, types and size of pyrotechnics to be fired appropriate to the venue's limitations.
- The air to toxic particle ratio levels is extremely low in most venues or the event is outdoors, therefore the risks are mitigated.
- Advise public and volunteers of possible problems for asthmatics.
- Ventilate area after firing.
- Only use products known for their reliability and consistency
- Ensure clear means of escape, clearly signed and lighted.

|  |   |   |   |
|--|---|---|---|
| Residual Risk Rating following the implementation of Hazard Control measures | 1 | 5 | 5 |
|--|---|---|---|

| Hazard/Activity/Materials   | Who may be harmed?                                    | Risk Rating<br>(Likelihood x Severity = Risk) |   |    |
|---|---|---|---|----|
| <b>3. Fire</b> <ul style="list-style-type: none"> <li>Injury to persons</li> <li>Destruction of property</li> </ul> | <ul style="list-style-type: none"> <li>ALL</li> </ul> | 2   | 5 | 10 |

### Hazard Control Measures

- Only trained and experienced crew to use the equipment and pyrotechnic effects.
- Appropriate PPE and clothing to be worn.
- Surrounding materials to be fire-proofed and fire blankets used
- Equipment self-extinguishing
- No product that is not going to be used is to be stored on site.
- Store equipment and pyrotechnics in designated packaging in a secure area away from escape routes and hazards.

## Risk Assessment

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|--|---|---|---|
| Residual Risk Rating following the implementation of Hazard Control measures | 1 | 5 | 5 |
|--|---|---|---|

| Hazard/Activity/Materials   | Who may be harmed?   | Risk Rating<br>(Likelihood x Severity = Risk) |   |   |
|---|--|---|---|---|
| <b>4.</b> Parking and pedestrianisation, vehicle movements<br><br><ul style="list-style-type: none"> <li>Vehicles travelling along roads along side public viewing and firing site</li> <li>Risk of fire</li> <li>Injury to persons and property</li> </ul> | <ul style="list-style-type: none"> <li>Marshalls Public</li> <li></li> </ul> | 2   | 4 | 8 |

### Hazard Control Measures

- Minimise vehicle movements during ingress and egress, using marshals to assist with traffic control
- Main through road users advised by marshals and signage of event times.
- Village event so extra vehicles will be at minimum and parking on street or Village hall car park will be sufficient.
- No unauthorised vehicles to be within controlled areas during firing.

Residual Risk Rating following the implementation of Hazard Control measures

| Control measures  |   |                                |   |             |
|---|---|--------------------------------|---|-------------|
|   |   |                                |   | Risk Rating |
| Hazard/Activity/Materials   | Who may be harmed?                                    | (Likelihood x Severity = Risk) |   |             |
| <b>5.</b> Misplacement of pyrotechnics from the designated positions<br><br><ul style="list-style-type: none"> <li>Injury to persons</li> <li>Fire</li> </ul> | <ul style="list-style-type: none"> <li>ALL</li> </ul> | 2                              | 4 | 8           |

### Hazard Control Measures

- Use tried and tested means of securing equipment/pyrotechnics.
- Ensure devices are positioned and securely rigged.

## Risk Assessment

- Only trained and experienced SFX crew to handle, position and rig pyrotechnics.
- Carry out separate checks on all placed devices.
- Ensure direct line of site on all effects and/or contact with a spotter.
- Have required extinguishers and trained personnel available.
- Carry out final check before show time.

|  |   |   |   |
|--|---|---|---|
| Residual Risk Rating following the implementation of Hazard Control measures | 1 | 4 | 4 |
|--|---|---|---|

| Hazard/Activity/Materials   | Who may be harmed?   | Risk Rating<br>(Likelihood x Severity = Risk) |   |   |
|---|--|---|---|---|
| <b>6. Misfires</b> <ul style="list-style-type: none"> <li>• Injury to persons</li> <li>• Fire</li> <li>• Unauthorised explosions</li> </ul> | <ul style="list-style-type: none"> <li>• Crew</li> <li>• Performers</li> </ul> | 2   | 4 | 8 |

### Hazard Control Measures

- Only trained and experienced SFX crew to handle, position and rig pyrotechnics
- Only materials/pyrotechnics known for consistency and reliability will be used
- Pyrotechnics to be positioned correctly and securely with safety distances adhered to and enforced.
- All effects to be checked just prior to show time.
- Post- show all effects to be checked by trained and competent operators
- Firing area to remain secure until any misfires have been dealt with and removed into a safe location.
- Misfiring to be handled per the COSHH assessments

|  |   |   |   |
|--|---|---|---|
| Residual Risk Rating following the implementation of Hazard Control measures | 1 | 4 | 4 |
|--|---|---|---|

| Hazard/Activity/Materials | Who may be harmed? | Risk Rating<br>(Likelihood x Severity = Risk) |  |  |
|---------------------------|--------------------|---|--|--|
|---------------------------|--------------------|---|--|--|

## Risk Assessment

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| <b>7. Adverse weather:</b> <ul style="list-style-type: none"> <li>Change in wind direction</li> <li>Rain</li> <li>Thunder / lightning</li> </ul> | <ul style="list-style-type: none"> <li>ALL</li> </ul> | 3 | 3 | 9 |
|--|---|---|---|---|

### Hazard Control Measures

- Test launch of small firework to gauge effect.
- Where possible firework are to be rigged in the middle of the village green allowing for:
- Increase separation from fireworks and relocate safety line / barriers.
- If safe separation cannot be ensured, delay or cancel display.
- If adverse weather conditions, cancel event
- If Lightning detected within 5km or 3.11m all site activity to cease until 20 mins after last detectable strike, if not possible event to be cancelled

|  |                    |   |   |    |
|--|--------------------|---|---|----|
| Residual Risk Rating following the implementation of Hazard Control measures   |                    | 1   | 3 | 3  |
| Hazard/Activity/Materials  | Who may be harmed? | Risk Rating<br>(Likelihood x Severity = Risk) |   |    |
| 7.Smoke and build up of smoke produced by pyrotechnics<br><br>• Toxic vapours<br>• Unpleasant smells<br>• Irritant to asthmatics | • ALL              | 2   | 5 | 10 |

### Hazard Control Measures

- Only fire quantities and types of pyrotechnics appropriate to the venue
- The air to toxic particle ratio levels is extremely low in most venues, therefore the risks are mitigated.
- Advise medical personnel of possible problems for asthmatics.
- Ventilate area after firing.
- Only use pyrotechnics known for reliability and consistency
- Abort firing if smoke build up has been miscalculated and becomes unreasonable for the venue and or space.

## Risk Assessment

|  |   |   |   |
|--|---|---|---|
| Residual Risk Rating following the implementation of Hazard Control measures | 1 | 5 | 5 |
|--|---|---|---|

| Hazard/Activity/Materials  | Who may be harmed?                                    | Risk Rating<br>(Likelihood x Severity = Risk) |   |    |
|--|---|---|---|----|
| 8. Crowd Control / Over crowding <ul style="list-style-type: none"> <li>Separation of children from parents</li> <li>Crush injuries</li> </ul> | <ul style="list-style-type: none"> <li>ALL</li> </ul> | 2   | 5 | 10 |

### Hazard Control Measures

- Only advertise to Village as a Village event to minimise footfall and ease ingress and egress.
- Soft plastic orange fencing to be used as crowd barrier, in the unlikely event of a crush fencing would give and pressure would be elevated.
- Volunteer marshals are in place and are responsible for crowd control. They are identifiable by wearing fluorescent bibs or jackets.
- Voice amplification will be used to communicate with the crowd.

|  |   |   |   |
|--|---|---|---|
| Residual Risk Rating following the implementation of Hazard Control measures | 1 | 5 | 5 |
|--|---|---|---|

## Risk Assessment

### Risk Assessment Matrix

The table below is used to calculate the Risk Rating shown in the Risk Assessments

|                    |                        | Likelihood of Incident |               |               |               |                        |
|--------------------|------------------------|------------------------|---------------|---------------|---------------|------------------------|
| Severity of Injury |                        | Very Unlikely<br>1     | Unlikely<br>2 | Possible<br>3 | Probable<br>4 | Virtual Certainty<br>5 |
|                    | Insignificant<br>1     | 1                      | 2             | 3             | 4             | 5                      |
|                    | Minor Injury<br>2      | 2                      | 4             | 6             | 8             | 10                     |
|                    | Reportable Injury<br>3 | 3                      | 6             | 9             | 12            | 15                     |
|                    | Major Injury<br>4      | 4                      | 8             | 12            | 16            | 20                     |
|                    | Fatality<br>5          | 5                      | 10            | 15            | 20            | 25                     |

## Risk Assessment

|   |
|---|
| Likelihood of Incident x Severity of Injury = Risk Rating |
|---|

|                     |   |
|---------------------|---|
| Risk Rating 1 - 5   | No Further Action required                              |
| Risk Rating 6 - 10  | Introduce further hazard controls where possible        |
| Risk Rating 12 - 25 | STOP! Controls must be introduced to reduce risk rating |

Signed .....Chairman

Date 30<sup>th</sup> September 2025