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| **RISK ASSESSMENT FORM** |  | **Assessed by:** |  |  |
| **Activity:** | Ventilation including tactical ventilation and the use of positive pressure ventilation (PPV). OPN 29 highlights the 3 phases of PPV use. |  | **Name:** | **Job Title:** | **Roll No.** |
| **Location:** | Various |  | **Xxxx Xxxx** | SHE Advisor | 1209 |
| **Dept/Station:** | Operational activity |  | **Xxxx Xxxx** | SHE Manager | 1421 |
| **Date of Assessment:** | 10th Sept 2012Reviewed 17th April 2015Reviewed April 2018 by Policy. |  | **Formal consultation completed** |  |  |
| **Next Review Date:** | April 2021 or sooner if procedures change or if there is a significant safety event. |  |  |  |  |
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| **Standard Consultation****High risk operations brigade wide** –  |
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| **SEVERITY (S)** |  | **Likelihood (L)** | **Risk Rating (RR)****S x L = RR** |
| **1.****Rare -****The situation is well controlled** | **2.****Unlikely -****Well controlled, occasional lapses could occur** | **3.****Likely -****Incomplete controls** | **4.****Very likely-****Inadequate Controls** | **5.****Certain No Controls** |
| 1. | First Aid onlyMinor Injury | 1 | 2 | 3 | 4 | 5 | **Low Risk****1 – 5** | **No further action required** |
| 2. | Lost Time Injury1-3 days | 2 | 4 | 6 | 8 | 10 | **Medium Risk****6 – 12** | **Action plan required and further controls implemented before proceeding** |
| 3. | Over 3 Day Injury | 3 | 6 | 9 | 12 | 15 |
| 4. | Major InjuryFracture etc. | 4 | 8 | 12 | 16 | 20 | **High Risk****15 - 25** | **Do not proceed consult SHE Team** |
| 5. | Fatality/multiple injuries | 5 | 10 | 15 | 20 | 25 |

| **Row ref** | **Breakdown of Task (where required)** | **Hazard/****Risk** | **Person (s) at risk** | **Existing control measures** | **Risk rating** | **Recommendations/****additional controls needed****(Complete action plan)** |
| --- | --- | --- | --- | --- | --- | --- |
| **S** | **L** | **RR** |
| **Assumptions for Controls - for all hazards it is given that standard controls exist, these are;*** **Fire fighters are all trained and assessed and either maintaining competence or if they are phase 2 FFs they will be under close supervision.**
* **All operational personnel are supervised via the Incident Commander and the Command and Control procedures.**
* **All operational personnel wear Full firefighting PPE consisting of leggings, tunic, gloves, flash hood, helmet with visor or integral safety glasses, safety boots (drivers safety shoes). Different / additional PPE will be stated where relevant.**
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| 1 | Using PPV fan | NoiseManual handling.Debris being sucked into airflow and expelled at force.Hot surfaces.Risk of injury | FRS personnel | Hearing protection or maintain a distance of 8 m away from the fan.Rotate operators.Manual handling training. The fan is a multi person lift.Full PPE including visor down.Designated mat used.Maintain hazard and clean areas.TIN 18 provides further details about the use of PPV fans, including hazards and controls. | 3 | 1 | 3 |  |
| 2 | PPV in use Phase 2 and 3  | Potential for fire spread and acceleration of backdraught / flashover due to introduction of air.Risk of severe injury, death | FRS personnel | Only trained personnel to use phase 2 and 3 PPV techniques.Incident Commander (IC) to RA the appropriate use considering;* Persons reported
* Building design and construction
* fire located and only one seat of fire. Fire size and type known.
* wind direction and strength
* suitable vent identified
* airflow route known and managed
* BA crews agree use and are aware of the use
* Good communications between BA crews and IC
* Safety officer to monitor ventilation externally and internally
* Covering safety jet required for cooling
* BA crew must avoid being between the fire and airflow route

Phase 2 and 3 PPV techniques are only to be used in low-rise buildings.Check any mechanical ventilation systems with site owner and the effects these may have. | 5 | 1 | 5 |  |
| 3 | PPV in use | Pilot lights or naked flames being extinguished creating explosive atmosphere.  | FRS personnel | Isolate utilities as soon as possible if using PPV | 5 | 1 | 5 |  |

**ACTION PLAN**

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| --- | --- | --- | --- | --- | --- | --- |
| **Recommendations/ Additional Controls Needed** | **Responsibility** | **Target Date** | **Date Completed** | **Revised Severity** | **Revised Likelihood** | **Revised Risk Rating** |
|  |  |  |  |  |  |  |
| **NOTES****Please use this page to provide additional information, guidance, technical references, photos, pictures etc.**

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| **Note – this is a generic risk assessment for the incident type and does not consider the type of appliance/vehicle attending or the crew size**  |

Relevant procedures are detailed in[OGBA 14](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/271157/131230-Operational_Guidance_Breathing_Apparatus__Web.pdf)[Operational Guidance - Incident Command](https://wmfs.sharepoint.com/sites/Mesh/Shared%20Documents/Incident%20Command.pdf#search=incident%20command)[OPN 22 Fighting Fires in Buildings](https://wmfs.sharepoint.com/sites/Mesh/WikiDocuments/OPN%2022%20Fighting%20Fires%20in%20Buildings.aspx)[OPN 23 High Rise Buildings](https://wmfs.sharepoint.com/sites/Mesh/WikiDocuments/OPN%20High%20Rise%20Building.aspx)[OPN 29 Tactical Ventilation](https://wmfs.sharepoint.com/sites/Mesh/WikiDocuments/OPN%2029%20Tactical%20Ventilation.aspx)Other reference material[TIN 18 Positive Pressure Ventilation Fans](https://wmfs.sharepoint.com/sites/Mesh/WikiDocuments/TIN%2018%20Positive%20Pressure%20Ventilation%20Fans.aspx)[NOG Industrial or agricultural building fire](https://www.ukfrs.com/scenarios/industrial-or-agricultural-building-fire)[NOG Building over 18m high](https://www.ukfrs.com/scenarios/building-over-18m-high)[NOG Domestic dwelling fire](https://www.ukfrs.com/scenarios/domestic-dwelling-fire) |