|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 2012  Reviewed 17th April 2015  Reviewed 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. | | | | |  |  | | |  | |  |
|  | | | | | | | | | | | | | | |
| **Standard Consultation**  **High risk operations brigade wide** – | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| **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 only  Minor Injury | | 1 | 2 | 3 | 4 | | | 5 | **Low Risk**  **1 – 5** | | **No further action required** | |
| 2. | Lost Time Injury  1-3 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 Injury  Fracture 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.** | | | | | | | | |
| 1 | Using PPV fan | Noise  Manual 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**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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.**   |  | | --- | | **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) | | | | | | |