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CONFINED SPACE

RISK ASSESSMENT

Document ID: RA-002

**Document Approval History**

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| **Document Revision No.** | **Effective Date** | **Created**  **by:** | **Reviewed & Approved**  **by:** |
| Revision 0 | DD.MM.YYYY | HSE Advisor | HSE Manager |
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**Document Revision History**

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| **Document Revision No.** | **Sections Revised** | **Description of Changes** |
| 00 | N/a | Published |
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| Risk Assessment Details | | | | |
| Work Activity Assessed: |  | Ref. No. | |  |
| Location/site of work activity: |  | Date Assessment carried out: | | dd/mm/yyyy |
| Persons carrying out assessment: | Name: | | Positions: | |
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| Approved by: |  | |  | |

| CONFINED SPACE RISK ASSESSMENT | | | | | | | |
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| Activity | Hazards | Consequences | Existing Controls | S | L | R | Notes |
| **Working in confined space** | * Oxygen deficiency * Confined space access & egress. | * Slowing down of pulse rates, * Disorientation, * Unconsciousness, * Drowsiness, * Headache | * Permit to work shall be obtained prior to starting any work. * Provide Toolbox Talks on confined space to the workforce regularly. * Check the oxygen levels of the confined space prior to entering. * Check the oxygen levels at regular intervals during work execution. * Supervision by an experienced Foreman. * Adequate ventilation shall be provided. * Visual inspection for an obstruction that could interfere with normal movement or emergency rescue. * Only competent persons shall work in confined spaces. * Openings must be of a size to allow worker to pass through. Access openings less than 700 mm (28”) are not recommended. * Minimum mandatory PPE shall be enforced (Helmet, Safety Shoes and company issued coveralls for workers) | 3 | 3 | 6 |  |

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| **Risk Calculation Matrix** |

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| **Severity (S)** | |  |
| Designation | Description | |
| 5 | Catastrophic event with the potential of over 10 fatalities  (10 FWI) | |
| 4 | Catastrophic event with the potential between two and 10 fatalities  (between 2 – 10 FWI) | |
| 3 | Significant event with the potential of between five major injures and two fatalities  (between .5 and 2 FWI) | |
| 2 | Significant event with the potential of a single major injury to five major injures  (between .1 - .5 FWI) | |
| 1 | Event with the potential for less than 20 minor injuries or a single major injury  (less than .1 FWI) | |

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| **Likelihood (L)** | |
| Designation | Description |
| 5 | >75% Very likely the risk will occur.  Risk would occur 5 times a year or more. |
| 4 | 51-75% Likely the risk will occur.  Risk would occur between 1 and 5 times a year. |
| 3 | 21 – 50% Possible the risk will occur.  Risk would occur between once in 5 years to just less than once a year |
| 2 | 5 – 20% Unlikely the risk will occur.  Risk would occur between once in 25 years or up to once in 5 years. |
| 1 | <5% Very unlikely the risk will occur.  Risk would occur less than once in 25 years |

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| **Risk Classification (R)** | | | | | | |
| **Likelihood** | 5 | 6 | 7 | 8 | 9 | 10 |
| 4 | 5 | 6 | 7 | 8 | 9 |
| 3 | 4 | 5 | 6 | 7 | 8 |
| 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Note: Risk = Likelihood + Severity | 1 | 2 | 3 | 4 | 5 |
|  | **Severity** | | | | |

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| **Risk Classification and Action** | | |
| Designation | Classification | Action |
| 7 to 10 | Unacceptable | This situation is not tolerable. Work shall not be started or continued until the risk has been reduced. If it is not possible to reduce the risk even with unlimited resources the work has to remain prohibited. |
| 6 | Unsatisfactory | Work may continue provided the risk has been reduced to the lowest level ALARP. The task will be reviewed frequently and additional controls will be put into place to mitigate the risk, such as supervision. |
| 4 to 5 | Tolerable | Work may only start if the risk has been reduced to ALARP. Where work is already underway effort will be expended within a defined period to make further improvements to reduce risk to ALARP. |
| 2 to 3 | Low | Work may be started or continued. Effort should still be made so that risk is maintained at a level that is ALARP. |