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|-----------------------------------|--|-------------------------|---------------|--------------------|
| Project: | Workshop Operations | RA No: | 03 | Review Date |
| Operation / Task: | Handling, Storage & Use of compressed gas cylinders | Persons at risk: | All employees | 31/01/2027 |
| Location / Area: | Workshop/Yard | Public at risk: | Yes | |
| Monitoring Responsibility: | Depot Manager, Workshop Manager, Workshop Foreman, Operatives and Supervisors, HSQE Team | | | |

KEY

S = Severity Rating

L = Likelihood of Occurrence

RR = Risk Rating

| | | | | | | |
|---|---|----|----|----|----|---|
| 5 | 5 | 10 | 15 | 20 | 25 | R Unacceptable risk, plan out or add further controls. O Acceptable only if no other method viable & with high level controls in place. Y Acceptable with suitable controls. G Acceptable, no further action required. |
| 4 | 4 | 8 | 12 | 16 | 20 | |
| 3 | 3 | 6 | 9 | 12 | 15 | |
| 2 | 2 | 4 | 6 | 8 | 10 | |
| 1 | 1 | 2 | 3 | 4 | 5 | |
| | | 1 | 2 | 3 | 4 | 5 |

Severity

Likelihood

| Activity | Hazards/Risks Identified | Risk Rating | | | Control Measures | Residual Risk | | | Responsibility |
|---|--|-------------|---|----|--|---------------|---|----|---|
| | | S | L | RR | | S | L | RR | |
| Handling, Storage & use of compressed gas cylinders | Impact from the blast of a cylinder explosion or a rapid release of gas Impact from parts of cylinders that fail. Contact with released gasses. Fire resulting from the escape of flammable gasses. | 4 | 4 | 16 | <ul style="list-style-type: none"> Only approved cylinders designed to meet the standards of the Pressure Equipment Regulations 1999 are to be used. Cylinders only to be used by competent persons trained in the safe use, handling and storage of pressurised cylinders. Inspections of cylinders in accordance with an examination scheme. Daily pre-use checks. Movement of cylinders in accordance with an approved safe system of work either by trolley or lifting appliance. | 4 | 2 | 8 | Depot Manager. Workshop Manager Workshop Foreman HSQE Team |
| Handling, Storage & use of compressed gas cylinders | Impact from falling cylinders. Manual handling injuries or muscular/skeletal disorders Disruption to Jubilee Line services and passengers | 4 | 4 | 16 | <ul style="list-style-type: none"> Cylinders to remain vertical and secured in an approved cage or trolley at all times. Valve protector caps to be fitted at all times when not in use or when cylinder is being transported. All mechanical lifting of cylinders to be by competent persons in accordance with an approved lifting plan. No lifting of cylinders by forklift unless secured in a cage designed for that purpose. Cylinders are to be removed to an external storage cage overnight on a daily basis. | 4 | 2 | 8 | Depot Manager. Workshop Manager Workshop Foreman HSQE Team |

| | | | | |
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| KEY | S = Severity Rating | L = Likelihood of Occurrence | RR = Risk Rating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|------------------------|------------------------------|------------------|---|----|----|----|----|----|---|---|----|----|----|---|---|---|----|----|---|---|---|---|----|---|---|---|---|---|--|--|------------|---|---|---|---|---|
| | 1. Negligible | 1. Improbable | 5 | <table border="1"> <tr> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> </tr> <tr> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td>20</td> </tr> <tr> <td>3</td> <td>6</td> <td>9</td> <td>12</td> <td>15</td> </tr> <tr> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td></td> <td></td> <td>Likelihood</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </table> | 5 | 10 | 15 | 20 | 25 | 4 | 8 | 12 | 16 | 20 | 3 | 6 | 9 | 12 | 15 | 2 | 4 | 6 | 8 | 10 | 1 | 2 | 3 | 4 | 5 | | | Likelihood | 1 | 2 | 3 | 4 | 5 |
| | 5 | 10 | 15 | | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 8 | 12 | | 16 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 6 | 9 | | 12 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 4 | 6 | | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Likelihood | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Minor Injury | 2. Remote 1 – 10% | 4 | 4 | 8 | 12 | 16 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Major Injury (RIDDOR) | 3. Possible 10 – 50% | 3 | 3 | 6 | 9 | 12 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Fatality | 4. Probable 50 – 90% | 2 | 2 | 4 | 6 | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. Multiple Fatality | 5. Almost certain 90%+ | 1 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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- O** Acceptable only if no other method viable & with high level controls in place.
- Y** Acceptable with suitable controls.
- G** Acceptable, no further action required.

Risk Assessment Prepared By:

Paul Lynch

Signature:

Date:

31/01/2026

Risk Assessment Reviewed By:

Daniela Rizvan

Signature:

Date:

31/01/2026

