**RISK ASSESSMENT**

**ACTIVITY**
Storage and use of LPG

<table>
<thead>
<tr>
<th>Hazards Identified</th>
<th>Severity</th>
<th>Likelihood</th>
<th>Estimated risk rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 Major</td>
<td>2 Serious</td>
<td>1 Slight</td>
</tr>
<tr>
<td>Fire</td>
<td></td>
<td></td>
<td>3 Certain, 2 Frequent</td>
</tr>
<tr>
<td>Explosion</td>
<td></td>
<td></td>
<td>1 Seldom</td>
</tr>
<tr>
<td>Asphyxia</td>
<td></td>
<td></td>
<td><strong>P</strong> Medium</td>
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</tbody>
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Planning Procedures:
Prior to starting work with LPG, quantities will be estimated to ensure adequate storage facilities will be available. Liaison between contractors, owners and clients will be maintained to ensure storage is adequate. The minimum quantity required will be held on site.

Training:
Operatives using LPG will be given training. This will include the approved method of leak detection, fire precautions and the use of fire extinguishers.

Monitoring.
The nominated site supervisor will ensure that storage facilities are adequate and are maintained to the specified standard. During inspections, they will check to ensure LPG equipment is being used properly, cylinders not in use are removed from the workplace, fire extinguishers are present, and storage areas are in good order. Hot work using LPG must be inspected at the end of work periods to ensure that the risk of fire is minimised.

Control Measures:
- Cylinders will be stored upright in an open mesh, lockable container away from buildings, drains and excavations.
- Only cylinders connected to equipment will remain in work areas. And cylinders will be kept away from flammable materials and heat sources.
- Adequate ventilation will be provided in areas where LPG is in use.
- Where LPG is used, a dry powder fire extinguisher will be available.
- Equipment using LPG will be subject to a planned maintenance programme.
- Empty cylinders will be treated as full, except in storage where they will be segregated.
- Storage areas will be signed with appropriate safety signs and warnings.
- Direct heat will not be applied to cylinders.