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## Risk Element

- Spread of fire;
- Exposure to fumes;
- Eye injury;
- Burn injury;
- Danger to third parties;
- Entanglement;
- False alarm trips.

## Precautions to Eliminate/Reduce Risk

- Ensure the system is fully isolated prior to any work commencing;
- Use of heat shields;
- Removal of combustibles;
- Two checks, one after 30 minute interval at the end of the operation. All hot works to stop 1 hour prior to end of shift, with a thorough inspection carried out before leaving site for any smouldering materials;
- Fire extinguisher present;
- Second person present;
- Ventilate work area;
- The use of a respirator;
- Wear eye protection;
- Wear fire retardant clothing, heat resistant gloves and suitable safety shoes;
- Effectively cordon off working area;
- Isolation or protection of sensors.

## Action in an Emergency

- Switch off and isolate Oxygen / Acetylene equipment or abrasive wheel cutting equipment;
- Attempt to extinguish fire if appropriate;
- Remove injured person(s) from danger area (if without risk);
- Render first aid.

## Safe Working Method

- Contact customer's management to gain permission and to advise of work to be carried out;
- Where required, complete Hot Work Permit and adhere to any rules printed thereon, over and above these procedures;
- All Health & Safety rules must be obeyed;
- A fire extinguisher of the correct type must be present and within reach;
- Arrange for isolation of any fire alarms, i.e. smoke detectors and heat sensors if in the vicinity of the working area;
- Cordon off area within which work is being carried out, to prevent the entrance of unauthorised personnel;
- If work is to be carried out in a confined space, then adequate ventilation must be made;
- Eye protection must be used at all times;
- Flame resistant clothing must be worn;
- Heat resistant gloves must be worn.
- Before commencing work, check all equipment. e.g.:
  - Brazing line condition;
  - Oxygen / Acetylene regulators;
  - Flashback arresters;
  - Torch & nozzle;
  - Ensure Acetylene cylinders are kept upright and secured;
  - Ensure grinders/still saws are inspected prior to use;
- A second person should be present at all times whilst carrying out cutting;
- Heat shields should be used to protect any surrounding material;
- Ensure work area is clear of any combustibles, e.g. oil, lagging, paper, etc.;
- On completion of work, check surrounding area for smouldering;
- Re-check for smouldering after 30 minutes;
- Complete Hot Work Permit as required;
- Report back to customer's management;
- Arrange to reinstate fire alarms;
- Complete all documentation.

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