

Managing Confined Spaces Safety Guidance Document

Lead Directorate and Service:	Corporate Resources - Human Resources, Safety Services
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1. Background

This safety guidance document provides information on the management of, and working within confined spaces. A confined space is any space of an enclosed nature with limited openings, where there is a risk of serious injury from hazardous substances or dangerous conditions in and around the confined space. Examples are; chambers, tanks, silos, pits, sewers, vats, flues, wells, ducts or poorly ventilated rooms (e.g. basements, roof spaces)

2. Foreword

In accordance with the Councils corporate safety policy, the Council is committed to pursuing continual improvements in health and safety. This safety guidance document supports this commitment and forms part of the Councils health and safety management system.

3. Implementation

Directorates are responsible for the implementation of this safety guidance document, and communication of its content as appropriate.

This safety guidance document is available on the Safety Services intranet page and, where employees do not have access to the council's intranet, via their line manager/headteacher.

The Council relies on the co-operation of all employees and trade unions for the successful implementation of this safety guidance document.

A review of this safety guidance document will be undertaken two years after its implementation, and where significant changes in legislation or working practices deem this appropriate.

4. Roles and Responsibilities

4.1 Directors and Heads of Service

Directors and heads of services are ultimately responsible and accountable to the Chief Executive for ensuring this safety guidance document is issued to their management team.

4.2. Managers/Headteachers

Managers/Headteachers need to consider this guidance in relation to work carried out within their control. *Appendix 1* is a step by step list of potential duties.

Managers/Headteachers are responsible for achieving the objectives of this safety guidance document where relevant to their area of service delivery and are responsible for ensuring that:

• The information contained within this safety guidance document is implemented and complied with;

- Confined spaces have been identified and risk assessed by a competent person and that they are controlled. (including securing against unauthorised access);
- Control measures (safe systems of work) are introduced to reduce any potential risks to a reasonable level;
- Relevant information, instruction and training is provided to staff to enable them to undertake their job safely and without risk;
- Persons involved in work that requires entry in to confined spaces, are medically fit, competent to carry out that work and have received adequate, information, instruction and training;
- A Competent Person prior to any confined space entry undertakes a risk assessment and that safe systems of work are developed including entry permits and a rescue plan;
- Any equipment provided for safety in connection with confined spaces is appropriate for the purpose and adequately maintained;
- They suspend all work if in their opinion the safe systems of work or control and emergency measures are not being complied with.

4.3 Supervisors (Competent Person)

The degree of supervision required for any confined space entry shall be based on the findings of the risk assessment.

Where the level of risk requires the appointment of a competent person to supervise the work, they will need to remain present while the work is being undertaken

The supervisors (competent person's) role is to ensure that:

- The permit to work system operates properly;
- All necessary safety precautions are taken prior to, during and after the work is undertaken;
- Anyone in the vicinity of the confined space is informed of the work being done;
- Entry into the confined space is controlled;
- Communications with the employees is maintained;
- Emergency procedures are in place;
- Work is suspended if, in their opinion, the safe systems of work or control and emergency measures are not being complied with.

4.4 Employees

Employees must ensure they carry out assigned tasks and duties in accordance with information, instruction, training and agreed safe systems of work. Specifically they should ensure:

- This safety guidance document is complied with;
- They participate in the completion and review of risk assessments;
- They cooperate to enable their manager/headteacher to formulate and implement effective management systems;
- Where required they are medically fit to undertake work in confined spaces and must inform their line manager/supervisor where medical conditions would affect working in a confined space;
- They never enter a confined space unless they have been deemed competent and have been trained and authorised to do so;
- They understand the safe system of work that they have to use whilst working in a confined space;

- They comply with any control measures contained within the safe system of work;
- They report any equipment defects, worsening conditions or new hazards encountered within the confined space to their supervisor. If necessary withdraw from the confined space.
- Their own health and safety and that of others are not put at risk by their actions.

4.5 Safety Services

The primary function of Safety Services is to support the Council and its employees by providing professional, authoritative, impartial advice on all aspects of health, safety and wellbeing. Where managers/headteachers require further assistance, safety services will advise on achieving compliance with this safety guidance document.

4.6 Occupational Health

The Occupational Health Unit will support this policy and procedure by providing managers, headteachers and employees with guidance on all work related health issues, including medical advice to those employees who have to enter in to confined spaces. Further information on the role of occupational health can be found on the Council's intranet.

5. Arrangements

5.1 What is a Confined Space?

The appearance of a confined space can be misleadingly inoffensive. By their nature confined spaces are places where there is restricted access and the opportunity for the atmosphere within them to become hazardous to life. All too often the first sign of danger is when a employee collapses within the confined space. Frequently, the initial reaction of colleagues is to provide assistance, making rescue attempts and becoming casualties themselves. A number of people die each year in confined spaces and approximately half of them are attempting a rescue. Confined spaces are found in a wide range of industries and buildings, some more obvious than others.

A confined space can be any space with limited access/egress where there is a risk of death or serious injury from hazardous substances or dangerous conditions. Some are easy to identify

- Storage tanks;
- Silos;
- Reactor vessels;
- Enclosed drains;
- Sewers.

Others that are less obvious, but can be equally as dangerous

- Open topped chambers;
- Vats;
- Flues:
- Wells;
- Ducts;
- Poorly or unventilated rooms, e.g. basements/roof voids;
- Rooms containing hazardous processes.

5.2 What are the dangers from confined spaces?

The dangers in confined spaces can exist for a variety of reasons, including

- Contamination from previous contents;
- A lack of oxygen due to chemical reaction or displacement;
- Toxic gas, fume or vapour accumulating from leaks, engine powered equipment or biological or chemical action;
- Fire and explosion from flammable vapours, dusts or excess oxygen;
- Liquids or free flowing solids suddenly filling the space;
- Very hot/cold working conditions leading to dangerous changes in body temperature.

These dangers can be already present in the confined space, but may also arise because of the work being carried out. Leaks, a failure to effectively isolate plant and changing environmental conditions can also give rise to some of these dangers.

The enclosure of work and working space can also increase other dangers that arise through the work being undertaken

- Machinery being used may require special precautions such as dust extraction or special precautions against electric shock;
- Welding or use of volatile/flammable solvents, adhesives etc. can create build ups of gases, fumes and vapours;
- If access is through manholes, escape or rescue in an emergency will be much more difficult.

5.3 Hazard Identification, Risk Assessment and Safe Systems of Work

All confined spaces that are identified, be they temporary or permanent will be subject to hazard identification (see appendix 3) by a competent person (at design stage by Building Surveyors, Engineers, Architects or Technicians). This will identify the potential hazards in the confined space (including the presence of any asbestos and its condition) both permanent and transient and the risk of serious injury from working in the confined space.

Wherever establishing a confined space is unavoidable, an important design feature is the provision of appropriate means to secure it against unauthorised entry.

Where there is a risk of serious injury or worse, entry into the confined space must be avoided. (See Appendix 2 'Confined Space Procedural Flow Chart'). However, if entry into the confined space is unavoidable, a risk assessment must be carried out by a competent person. A safe system of work must be developed and implemented with adequate emergency arrangements in place before work commences. Prerequisite staff competencies must be established at this stage.

Before accepting that entry into a confined space is unavoidable, you should consider alternatives.

- Is the work really necessary?;
- Can the space be modified so that entry is not necessary?;

• Could the work be done from the outside using remotely operated equipment, tools or cameras?

The design of any confined space should be such that the need to enter it for any purpose is minimised.

If entry cannot be avoided you must have a safe system of work. The risk assessment will identify the hazards and risks from which the control measures must be developed and put into practice. Everyone involved will have to be properly trained and instructed to ensure they know what to do and how to do it safely. The following measures are not exhaustive, but include many essential elements of a safe system of work:

5.4 Appointment of a Supervisor

Supervisors must be given responsibility to ensure that the necessary precautions are taken and to check safety at each stage. They may need to remain present for the duration of the work.

If they are required to remain present, communication must be maintained with those inside the confined space at all times. Work inside the confined space must be suspended whenever the supervisor has to leave the entry point.

5.5 Are Persons Suitable for the Work?

Do the intended employees/contractors have sufficient experience and training for the type of work being carried out? If the risk assessment identifies space constraints, are they of a suitable build? Other factors such as claustrophobia, fitness to wear breathing apparatus or medical advice on individual capability may need to be considered.

Confined spaces can be physically demanding, it is essential that employees are sufficiently fit and mentally capable of fulfilling their duties.

5.6 Isolation

If mechanical or electrical equipment could be operated inadvertently, or if gaseous, liquid or free flowing solids could enter the space and endanger employees, systems and pipe work must be effectively isolated. The isolation must be failsafe.

5.7 Cleaning Before Entry

The confined space may need to be cleaned of residues or contaminants that may release fumes. Similarly gaseous residues may need to be purged with an inert gas and/or fresh air prior to entry.

5.8 Size of Entrance

The size of the entrance must be large enough to allow employees, wearing all the necessary equipment, to safely enter and leave the confined space. It also has to be big enough to allow ready access and egress in an emergency.

5.9 Ventilation

It may be possible to increase the supply of fresh air into the confined space by increasing the number of openings. Mechanical ventilation may be necessary and will be essential whenever equipment is used that may release fumes. Engine powered equipment must never be used in or in the vicinity of a confined space because the exhaust fumes are so dangerous.

5.10 Testing the Air

Prior to entry into a confined space it may be necessary to test the air quality to make sure it is free from inert (oxygen depleting) gases, toxic or flammable vapours and fit to breathe. A competent person using correctly calibrated detection equipment must carry out such testing. The risk assessment may also identify that continuous monitoring of the air is necessary because conditions may change whilst work is in progress. If the air quality tests do not indicate a respirable atmosphere, entry **must** be denied.

5.11 Special Tools and Lighting

Where there is the potential for an explosive or flammable atmosphere non-sparking tools and specially protected lighting and electrical equipment will be required. In some circumstances, for instance in metal tanks, suitable precautions to prevent electric shock must be made including the use of low voltage equipment (less than 25volt) and residual current devices.

5.12 Breathing Apparatus

If the air inside a confined space cannot be made fit to breathe, the use of breathing apparatus is essential. Only suitably trained and experienced personnel can be allowed to wear breathing apparatus and a suitable entry control system must be established. Oxygen must never be used to 'sweeten' the atmosphere, as this will greatly increase the chance of a fire or explosion.

Prior to use it must be ensured that the equipment is certificated and within periodic test dates, and, that each wearer has undertaken a 'facefit' test.

5.13 Preparation of Emergency Arrangements

The necessary equipment, training and practise drills must be established, and everyone involved in the entry should fully understand these and be competent in instigating these should the need arise.

5.14 Rescue Harnesses/Descent Devices

The rescue harness is primarily designed to affect the rescue whereby the casualty will be supported in a near vertical position. This makes it ideal for use in confined space environments where they may be an access/egress problem due to the size of the opening. Nearly all rescue harnesses are fitted with an attachment point to enable then to be used as for the purposes of rescue. This point is only ever for use for rescue and should never be used as a fall arrest point.

It does not matter how good the harness is if an unsuitable point is chosen. Anchorage points should be substantial and able to withstand a minimum force of 10kN. Ideally an independent descent device should be used which will offer a means for a person to move safely from a higher to a lower position and will in turn offer a suitable means of facilitating an escape in the event of an emergency. It is vitally important that all component parts are compatible and users must have a sound working knowledge of these systems and be fully trained in their use. All items that fall under the requirements of Lifting Operations and Lifting Equipment Regulations (LOLER) must have been tested and certified as safe before they are used.

5.15 Communications

Suitable methods of communication between the people inside the confined space and those outside must be established and to summon assistance in an emergency.

In hazardous circumstances you may need to consider the use of monitored communications and/or automatic distress signalling units.

5.16 Raising an Alarm

In the event of an emergency, do you need someone continuously stationed outside the confined space to keep watch? To communicate with those inside? to control entry?, to summon assistance? and to take charge?

5.17 Permit to Work System

A permit to work system ensures that a formal check is undertaken to ensure that all parts of the safe system of work are in place before entry is made into a confined space. It is also a means of communication between site management, supervisors and those carrying out the hazardous work. Essential features of a permit to work system are:

- Clear identification of who may authorise particular jobs and who is responsible for specifying the necessary precautions;
- Provision to ensure that contractors engaged to carry out the work are included:
- Training and instruction in the issue of permits;
- Monitoring and auditing to ensure the system works.

5.18 Emergency Procedures

When things go wrong in a confined space, people are often exposed to serious and immediate danger. Effective arrangements for raising the alarm and carrying out rescue operations are essential.

Pre-determined contingency plans will depend on the nature of the confined space, the risks identified and the likely nature of an emergency rescue. The arrangements will depend on the risks, and should consider:

5.19 Communications

How can the emergency be communicated from inside the confined space to people outside so that rescue can start? Remember that this work frequently occurs outside of normal working hours and when premises are closed.

5.20 Rescue and Resuscitation Arrangements

The choice of suitable rescue and resuscitation equipment and arrangements will depend on the likely emergencies identified. Rescuers must be trained in the use of the equipment. The ability to 'self rescue' is vitally important and should always be a priority consideration when determining emergency arrangements. Escape sets will assist in the facilitation of self rescue, particularly in oxygen depleted/contaminated environments which could occur whilst persons are in a confined space. Those entering confined spaces with escape sets **must** be fully confident and trained in the use of this equipment. A hierarchy of rescue arrangements must be considered which includes:

- 'Non-entry rescue' where the use of equipment to remove people from the environment without rescuers having to enter the area themselves is achieved;
- Rescuers needing to enter the confined space to help the victim but this must only be done in accordance with the pre-determined plan.

Rescuers need to be properly trained people, sufficiently fit to carry out their task, ready to hand, and capable of using any equipment provided for rescue (breathing apparatus, lifelines, fire-fighting and resuscitation equipment etc.). They also need to be protected against the cause of the emergency.

The emergency services must not be relied upon to provide any rescue capability, by the time they arrive at the scene it may already be too late.

5.22 Shut Down

It may be necessary for them to be able to shut down adjacent plant before attempting rescue. In this case, an emergency stop system must be in place.

5.23 First Aid

Trained first aiders may need to be available with any specific training necessary for the likely injuries that may be expected from the hazards.

5.24 Emergency Services

The local emergency services may need to be called for assistance. Thought should be given to making them aware of the potential for an incident and the associated hazards and risks to enable them to pre-plan operations. In any event they must be given information about the dangers when they are summoned in an emergency

6. Managing Contractors

Any non-routine work planned inside a confined space within council premises must be properly planned. This begins by advising prospective contractors of any known existing or potential hazards and control measures including the requirements of any permit to work system where one exists.

The contractor shall provide in advance of the work, a suitable risk assessment and method statement for their activities. This will include details of any necessary air sampling/monitoring, staff competencies and emergency arrangements.

Building surveyors and engineers responsible for commissioning these activities should manage contractor arrangements and advise local managers of any necessary safety systems that must be in place prior to work commencing. Local managers will monitor activities (including the management of any permit to work system) to ensure that the safety systems and emergency arrangements are maintained. If there is any doubt they will retain the right to suspend work and contact the supervising officer and Safety Services.

7. Training Requirements

Working within confined spaces can be both arduous and dangerous. Anyone expected to enter or manage any confined space must possess relevant competencies. These will vary according to the nature of the confined space and work being undertaken. The following list of competencies should be considered:-

- Permit to work system management;
- Full breathing apparatus;
- Escape breathing apparatus;
- Air monitoring/sampling equipment;
- Rescue techniques;
- First aid;
- Specialist equipment training;
- General confined space entry training.

8. Accident and Incident Reporting

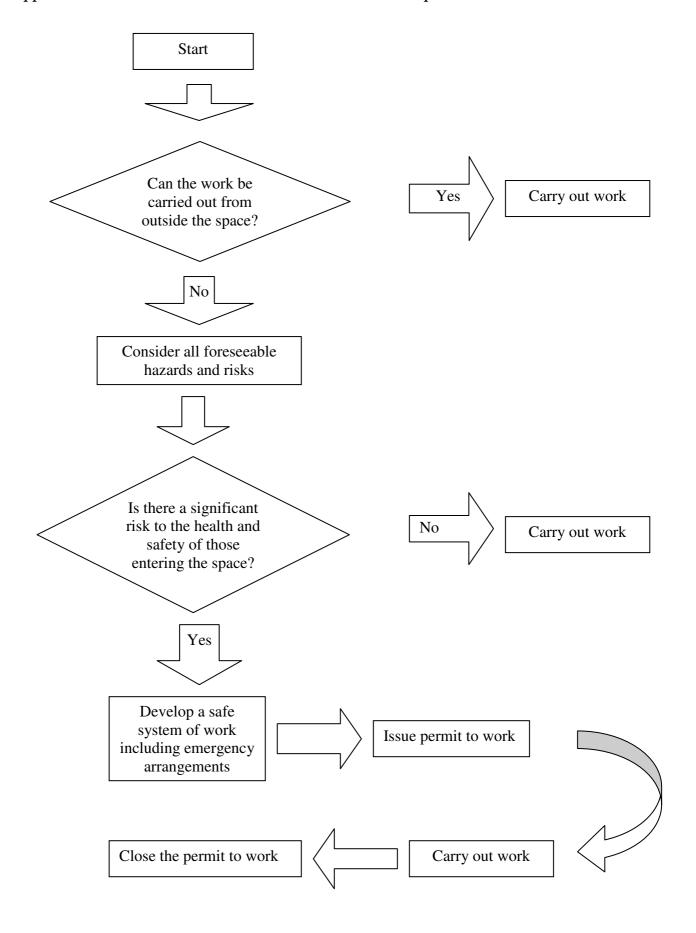
In accordance with the Council's accident/incident investigation and reporting guidelines, every manager is responsible for, and will, investigate and report all accidents and incidents. Where required accidents falling under the criteria of the 'Reporting of Injuries, Diseases and Dangerous Occurrence Regulations' (RIDDOR) will, in accordance with the reporting procedure, be notified to the Health and Safety Executive Incident Contact Centre. All accidents and incidents, regardless of if they are RIDDOR reportable will be recorded in accordance with the Council's accident recording guidelines.

Appendix 1 A Step by Step List of Managers/Headteachers Potential Duties

- **Step 1** If you are in control of or manage premises, you need to identify if there are any confined spaces as described under 5.1.
- Step 2 If you are unsure that an identified space meets the criteria detailed in section 5.1 then contact Safety Services on 01482 391117 or email: safety.services@eastriding .gov.uk.
- Step 3 Once you have identified the location of confined spaces, you must ensure that a register of their locations is recorded, the spaces are 'signed' as a confined space and written procedures and physical measures are put in place to control entry in to these areas.
- Where work may be required to be undertaken in confined spaces, you must ensure that this is only undertaken by persons who have sufficient experience and training for the type of work being carried out? If you are in any doubt then contact Safety Services on 01482 391117.
- Step 5 Control and monitor all contractors attending site to undertake work to ensure that work is not undertaken in confined spaces without the necessary competencies/arrangements being in place.

Appendix 2

Confined Space Procedural Flow Chart



Appendix 3 Confined Space Hazard Identification Form



To be completed by the ap Architect, Technician or Prem		ı (e.g.	Builo	ling Surveyor, Engineer,
Location and				
description of				
confined space				
Hazard		Yes	No	Comment and/or recommended control measure
Working at height within the c	confined space?			
Fire or explosion?				
Temperature extremes?				
Loss of consciousness or asph	yxiation due to:			
Gas?				
Fume?				
Vapour?				
Lack of oxygen?				
Drowning due to an increase i				
Asphyxiation/entrapment due				
Entrapment/entanglement in	moving machinery?			
Other relevant information/	comments/photographs et	tc.		

Appendix 4 Permit to Work



TO BE USED BY FULLY <u>TRAINED</u> PERSONS ENTERING INTO CONFINED SPACES

Note: Staff not trained will not be allowed and must not enter confined spaces

I authorise the following work/entry to commence subject to the risk assessment and method statement (safe system of work) and implementation of the associated safety precautions.							
Authorising Officer:-							
Print Name :-							
Maximum Validity Location and description of work							
No. of Operatives	Valid from (date/time)	to (date/	time)				
This permit is only valid when all sections are complete. If you are in doubt or don't understand, then please ask. <i>Please ensure that you sign this permit to work overleaf.</i> Do not proceed with your work until your permit has been authorised by the relevant member of staff. By accepting this permit you agree to the requirements of the ERYC Confined Spaces Guide. <i>Please initial the appropriate entries below</i>							
Do not proceed with your staff. By accepting this pe	nsure that you sign this permit to won r work until your permit has been auth rmit you agree to the requirements of the	rk overleaf. orised by the rel	evant me	mber of			
Do not proceed with your staff. By accepting this pe Please initial the appropriate	nsure that you sign this permit to won r work until your permit has been auth rmit you agree to the requirements of the	rk overleaf. orised by the rel	evant me	mber of			
Do not proceed with your staff. By accepting this pe Please initial the appropriate	r work until your permit has been auth rmit you agree to the requirements of the entries below and precautions to be taken	rk overleaf. orised by the relate ERYC Confine	evant me ed Spaces	mber of Guide.			
Do not proceed with your staff. By accepting this pe Please initial the appropriate Hazards to be aware of a Are you qualified / trained	r work until your permit has been auth rmit you agree to the requirements of the entries below and precautions to be taken	rk overleaf. orised by the relate ERYC Confine	evant me ed Spaces	mber of Guide.			
Do not proceed with your staff. By accepting this period Please initial the appropriate Hazards to be aware of a Are you qualified / trained Has confined space been in	r work until your permit has been auth rmit you agree to the requirements of the entries below and precautions to be taken to undertake this work?	rk overleaf. orised by the relate ERYC Confine	evant me ed Spaces	mber of Guide.			
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Do not proceed with your staff. By accepting this per Please initial the appropriate Hazards to be aware of a Are you qualified / trained Has confined space been in Has confined space been in Has confined space been to Has confined space	r work until your permit has been auth rmit you agree to the requirements of the entries below and precautions to be taken to undertake this work? solated from all connected pipe work? burged with steam/water/air? electrically isolated and locked off?	rk overleaf. orised by the relate ERYC Confine	evant me ed Spaces	mber of Guide.			

Is the supply of breathable air assured or is ventilation required?						
Is the means of access to and esca	ape from the confined space acceptal	ole?				
Is appropriately calibrated gas working order and are individuals	detection equipment, available, in trained in its use?	good				
Is breathing apparatus, including 'escape sets' at hand and in good working order?						
Is the safety line/tripod/harness a	and any other back up equipment in	place?				
Are the emergency arrangements	in place?					
Is a trained standby person at point	nt of entry?					
List below any other precaution	ns/safety equipment required					
			Yes	No		N/A
Is a test of the atmosphere requ	iired?					
TIME OF TEST:			Pass		Fai	1
Oxygen			Pass		Fai	1
			Pass		Fai	1
Oxygen			Pass		Fai	1
Oxygen Carbon Monoxide			Pass		Fai	1
Oxygen Carbon Monoxide Carbon Dioxide			Pass		Fai	1
Oxygen Carbon Monoxide Carbon Dioxide Flammability			Yes		Fai No	
Oxygen Carbon Monoxide Carbon Dioxide Flammability	equired?					
Oxygen Carbon Monoxide Carbon Dioxide Flammability Other (specify) Is continuous air monitoring re			Yes			
Oxygen Carbon Monoxide Carbon Dioxide Flammability Other (specify) Is continuous air monitoring respectively.	ED; ACCEPTANCE AND AUTH	ORISA	Yes FION		No	
Oxygen Carbon Monoxide Carbon Dioxide Flammability Other (specify) Is continuous air monitoring respectively.		ORISA	Yes FION		No	
Oxygen Carbon Monoxide Carbon Dioxide Flammability Other (specify) Is continuous air monitoring respectively. PREPARATION COMPLETE I verify the above location has assessment have been taken.	ED; ACCEPTANCE AND AUTH	ORISA'	Yes FION equired	l by	No	e risk
Carbon Monoxide Carbon Dioxide Flammability Other (specify) Is continuous air monitoring respectively to the above location has assessment have been taken. All operatives are certified conspecific procedures and hazard	ED; ACCEPTANCE AND AUTH s been examined, any precaution mpetent and have been trained ls.	ORISA'	Yes FION equired	l by	No	e risk
Carbon Monoxide Carbon Dioxide Flammability Other (specify) Is continuous air monitoring responsibility the above location has assessment have been taken. All operatives are certified conspecific procedures and hazard I accept responsibility for the version of the second control of	ED; ACCEPTANCE AND AUTH s been examined, any precaution mpetent and have been trained ls.	ORISA'	Yes FION equired	l by	No	e risk
Carbon Monoxide Carbon Dioxide Flammability Other (specify) Is continuous air monitoring respectively to the above location has assessment have been taken. All operatives are certified conspecific procedures and hazard	ED; ACCEPTANCE AND AUTH s been examined, any precaution mpetent and have been trained ls.	ORISA'	Yes FION equired	l by	No	e risk

Date:							
EXTENSION							
I hereby certify that I	have re-exam	ined the situation	on covered by this	Permit and authorise its			
extension to the Time and Date noted below							
Permit extended to:		Signature of A	Authorised Permit	Any additional			
Time	Date	issuer		precautions to			
				be taken			
· · · · · · · · · · · · · · · · · · ·							
HAND BACK AND CANCELLATION PROCEDURES							
I confirm that the work has been completed/partially completed, checked by myself							
and the area left in a safe and tidy condition. (Please delete accordingly)							
Person responsible for work		Date and					
1			Time				
I have inspected the finished work and hereby cancel this permit.							
Authorised Permit Issue	r		Date and				
			Time				