# SAFETY PROCEDURE

# SAFETY MANAGEMENT PROCEDURE FOR HAZARDOUS AREAS

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#### 1. APPROVAL

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This procedure is reviewed to ensure its continuing release the employees that it describes. A record of contextual additions or omit is good below.

Amendment Record				
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A printed version of this procedure is uncontrolled, except when provided with a document title and revision number in the field below and marked as 'Controlled Copy'.

Document Title: Hazardous Areas		Rev:		1.0	
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#### 2. PURPOSE

The purpose of this procedure is to define the strategy to safely manage and work in hazardous areas. This procedure details the objectives and processes to enable compliance with state and national standards to safely manage and work in hazardous areas, whilst ensuring the operational needs are met.

#### 3. SCOPE

This procedure applies to the use of electrical and rechanical potentially flammable and explosive atmospheres and the cific report managing potentially flammable and explosive atmospheres are the and equipment, performing operational activities

#### 4. TERMS AND DEFINITIONS

Term	De (init)
Classification of Hazardous Areas	Is a method of allysing of a rying the environment when volosis are present or is expected to be a reselection of equipment, particularly and assification is actioned in the following ray:  It is a method of a rying the environment present or is expected to present or is expect
Som .	y liquid, other than a flammable liquid (which is a gerous good), that has a flash point, and has a fire point ess than its boiling point.
Сс	Are finely divided solid particles, 500µm or less in nominal size, which may be suspended in air, may settle out of the atmosphere under their own weight, can burn or glow in air and may form explosive mixtures with air at atmospheric pressure and temperature.
Exposure	Is to be subjected to a hazardous area.
Explosive Dust Atmosphere	Is a mixture with air under atmospheric conditions of flammable substances in the form of dust, fibres or flyings in which, after ignition, combustion spreads throughout the unconsumed mixture.

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Term	Definition
Explosive Gas Atmosphere	Is the mixture with air under atmospheric conditions with flammable substances in the form of gas or vapour, which after ignition permits self-sustaining flame propagation.
Flammable Range	Is the range of flammable gas or vapour (percentage by volume) in the air of which an explosion can occur upon ignition. Expressed by lower explosive level (I and upper explosive level (UEL).
Hazardous Atmosphere	<ul> <li>Is an atmosphere in which:</li> <li>The atmosphere does not have a safe oxyg.</li> <li>The concentration of oxygen in atmosphere in the fire risk.</li> <li>The concentration of flam gallow, and fumes exceeds 5% of the LETT error or fumes.</li> <li>A hazardous cheminin mof a ple dust is present in a quare and the result in a hazardous area.</li> </ul>
Ignition Sources	Are a sou.  y, nic' smprise of naked flames, spark, aces sufficient to ignite an exploire atmos, e.
Lower Explosive Limit (LEL)	Is the diagram of the gas, vapour or mist in air, below the gas atmosphere will not be forme
Safe Oxygen Le	norm content in the air of 19.5% by volume norm content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the air of 19.5% by volume on the content in the con
Upper Ext Limit (1'	Is the centration of flammable gas, vapour or mist in air above which an explosive gas atmosphere will not be med.
	<ul> <li>Hazardous areas are classified into 'zones' based on the frequency of the occurrence and duration of an explosive gas atmosphere as follows:</li> <li>Zone 0 – is an area in which an explosive gas atmosphere is present continuously or is present for long periods (more than 1000 hours per year). Examples may include the vapour space of vented vessels, vapour space of vented storage tanks and immediately adjacent to a continuous source of release.</li> <li>Zone 1 – is an area in which an explosive gas atmosphere is likely to occur in normal operation (between 10 and 1000 hours per year). Examples may include where</li> </ul>

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