

GAS HAZARDS Procedure





Gas Hazards Procedure

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Purpose

It is the intention of IPS★ITCS to provide gas hazards training and detection equipment that meets or exceeds all federal standards. This program is associated with our Respiratory Protection Program.

Scope

This program applies to all IPS★ITCS projects and operations.

This program supplements the IPS★ITCS Respiratory Protection Program that is in place in accordance with 29 CFR 1910.134, Confined Space Program in accordance with 29 CFR 1910.146, and Inert Entry Operations Procedure in accordance with API 2217a.

Procedure

Gas Hazards Equipment

- Each employee shall use a portable gas monitor as required in all high gas or potentially high hazard areas.
- The gas monitor must be calibrated prior to use per manufacturer's recommendations and contain a current calibration sticker on the monitor providing the date of last calibration.
- Bump tests are required to be completed at the beginning of each day the monitor is in use per the requesting Owner Client and manufacturer's guidelines to ensure the monitor is functioning correctly.

Owner Client Contingency Plans Awareness

IPS★ITCS shall insure all employees are aware of the Owner Client's contingency plan provisions including evacuation routes and alarms. IPS★ITCS employees shall participate in emergency evacuation drills and practice rescue procedures.

Use, Maintenance and Care of Gas Monitors

- Only utilize monitors issued by either IPS **±**ITCS or made available by the Owner Client no personal monitors are allowed.
- Have the gas monitor on the outside of all clothing.
- Check the calibration date prior to bump testing. If the calibration date is expired turn the unit in immediately and do not use.
- Bump test each shift prior to using the monitor.
- Monitors are sensitive equipment avoid physical damage and immediately report any monitor that does not appear to be performing as expected

Training

All affected employees will receive gas hazards awareness training before their initial assignment and annually thereafter. This shall be in conjunction with the IPS **±**ITCS Respiratory Protection training.

Training shall address, as a minimum:

- Locations of alarm stations
- Gas Monitoring Equipment- Portable and Fixed Detection
- Gas Alarms
- Gas Hazards Characteristics of gases, to include oxygen deficiency, oxygen or nitrogen enrichment, carbon monoxide and Hydrogen Sulfide
- Any plant or department specific gases of concern
- Signs and symptoms of overexposure
- Personnel Rescue Procedures
- Use and care of Self-Contained Breathing Apparatus (SCBA) includes donning and emergency procedures (if applicable)
- Evacuation Procedures
- Staging Areas Primary and Secondary

Gas Hazard Awareness training shall be documented and available for review.

Revision History

Rev	Rev Date	Rev By	Approved By	Description
1.0	1.3.2022	Shayne Torrans	Shayne Torrans	Initial Procedure Document
1.1	12.5.2022	Shayne Torrans	Shayne Torrans	Format Revision

Approvals:

Procedure Owner

Print Name

Date

Signature

Competency Assessment

No.	Questionnaire	C/NYC
Q1		
A1		
Q2		
A2		
Q3		
A3		
Q4		
A4		
Q5		
A5		

Enclosed Attachments	
Risk Assessment	V
Environmental Aspect and Impact	V
Training and Competency	V
Measure and Evaluation Tools	V

Competency Checklist

To be filled out by Trainer and signed by Employee, Assessor and Supervisor before being returned to the HSEQT Manager for recording purposes.

Procedure	Competency	Date	Competent YES / NO	Employee Signature

(Please tick appropriate box)

This employee is competent in performing the job.

This employee has not attained the competency level.

* If the employee has not attained all competency levels, the General Manager must assess the action to be taken, provide an extension of training or alternative action as listed below.

Alternate action	on to be taken:		
Signed By	Employee:	D	ate:
	Trainer:	D	ate:
	Assessor:	D	ate:
	Regional Manager:	D	ate:



Environmental Aspects and Impacts

Identified Environmental Aspects and Impacts

The following table is a summary of the likely environmental aspects and impacts that may be identified during site inspections. The significance of each impact needs to be assessed using the Risk Assessment Model.

Activity	Aspect	Impact			
	Consumption of goods	Conservation of natural resources			
Purchasing & Administrative Work	Consumption of energy (eg. Electrical equipment and facilities)	Release of greenhouse gases and atmospheric pollution; Consumption of natural resources; Habitat loss			
	Generation of waste (eg. Paper)	Consumption of space for waste disposal; Habitat loss			
Climate Control	Consumption of energy	Release of greenhouse gases and atmospheric pollution; Consumption of natural resources; Habitat loss			
	Generation of noise	Disturbance to community; Habitat loss			
Cleaning of – offices / vehicles	Storage, use and release of chemicals	Contamination of air, water or soil; Risk to human health			
	Consumption of energy	Polease of greenhouse goses and autospheric oc lur o; Consumption of natura resources; Loss of habitat at all stages of generation; Light pollution			
Transport (Fleet vehicles / staff	(eg. OI) Generation of waste (eg.	of waste; Habitat loss; Biodiversity impacts Consumption of space for waste disposal; Potential contamination of water or soil;			
travel)	Oil)	Habitat loss			
	Exhaust emission	Release of greenhouse gases and atmospheric pollution			
	Use of dangerous goods (eg. Batteries)	Potential contamination of air, water or soil; Risk to human health			
	Generation of noise	Disturbance to community; Habitat degradation			
Operations					

Risk Assessment



Risk Assessment // insert_name here							
Step No: Logical sequenc e	Sequence of Basic Job Steps documented in the Procedure, Work Instruction and project plans. Break down Job into steps. Each step should be logical and accomplish a major task.	Potential Safety & Environmental Hazards/Impacts at the site of the Job Identify the actual and potential health and safety hazards and the environmental impacts associated with each step of the job.	Risk Rating Refer to the risk matrix or HSEQT.PRO. Risk Mgt	Recommended Corrective Action or Procedure Determine the corrective actions necessary to reduce the risk to as low as reasonably practical (ALARP) refer to HSEQ.PRO.Risk Mgt. The risk must be rediced or controlled to ALARP before work commences. Document who is responsible for implementing the controls to manage each hazard identified.	Risk Rating refer to the risk matrix or HSEQT.PRO.Risk Mgt		
1.							
2.							
3.							
4.							
5.							

Audit



Process: insert// Procedure: Insert //				Date: Location of Audit:	Audited by: Area Mgr/Supervisor:		
ltem	Question		Evidence Sited	Comments		Conformance Score 0,3,5	
1.							
2.							
3.							
4.							
5.							
6.							
7.							
AUDITOR'S SIGNATURE: SAFETY REP'S SIGNATURE:			CONFORMANCE SCORE: CONFORMANCE %:	/ 25	3 – Co	n-Conformance ntinuous Improvement Opportunity al Conformance	,