

# INJURY ALERT



## Title: Employee Overcome by Hydrogen Sulfide

IA.2008-01

<b>Injury Description:</b>	<p>An employee was overcome by hydrogen sulfide (H<sub>2</sub>S) and unresponsive for a short period.</p>
<b>Incident Details:</b>	<p>The employee was obtaining a water sample from a free water knock-out vessel (FWKO) and was overcome by H<sub>2</sub>S, resulting in momentary loss of consciousness. The collection area was enclosed by winter tarps allowing for poor ventilation and the accumulation of gas. After a preliminary assessment of the individual, the employee was transported to a medical facility for observation.</p>
<b>Causes:</b> (based on Pro-Safe - CBI definitions)	<p><b>1.0 BJSA</b></p> <p>1.2 BJSA Current – Does the BJSA reflect the current working conditions?</p> <p>1.3 BJSA Reviewed/Updated - Has the person(s) written or reviewed a BJSA specific to the task and work environment?</p> <p>1.6 Hazards are addressed – Are all hazards identified and addressed with safe procedures?</p> <p>1.7 LMRA - StepBack 5X5 Process - Was the Stepback 5x5 process utilized to identify hazards associated with this task when conditions (i.e. winter tarps) changed before, during, or after the task was performed?</p> <p><b>5.0 Personal Protective Equipment</b></p> <p>5.1 Protecting Breathing - Is respiratory protection used where respiratory hazards exist in the workplace?</p>
<b>Prevention Focus Items:</b> (Taproot Technique Utilized)	<ol style="list-style-type: none"> <li>1. Develop CAS procedures for sample collection (liquid and gas) that require the use of proper PPE (SAR/SCBA).             <ul style="list-style-type: none"> <li>➤ Review Interim Directive 2008.01 with all personnel</li> <li>➤ Are tasks being performed without needed procedures?</li> </ul> </li> <li>2. Ensure workers receive instruction in proper PPE use during H<sub>2</sub>S operations.</li> <li>3. Train workers on proper placement of personal gas monitors.</li> <li>4. Consider placement of temporary wind breaks, etc. to prevent blocking of detection devices.</li> <li>5. Review the Upstream Safety Manual, Section 8, Bonding &amp; grounding for sample containers on page 8-27</li> </ol>



