

<i>E&B Oilfield Services Inc.</i>	Activity: Chemical / Fueling Equipment Spill prevention		Doc No:	HAZ-ID
			Initial Issue Date	4/1/2015
			Revision Date:	4/1/2016
HAZARD IDENTIFICATION AND ASSESSMENT			Revision No.	1
			Next Revision Date:	4/1/2015
Preparation: David Abegglen	Authority: Danny Abegglen	Issuing Dept: Safety	Page:	1 of 4

Purpose

- **Spill prevention**

Key Responsibilities

- E&B Management will provide task appropriate training to all employees for spill prevention
- Supervisors / Leads are required to ensure all employees have adequate training
- E&B Employees should make sure they feel comfortable before left on their own while in training

Hazard and Risk Identification

Employees MAY be engages in spill prevention during (but is not limited) to the following activities:

- Pigging gas lines
- Transfer of any liquid (chemical or fuel)
- Demolition of oilfield equipment
- Moving equipment that contains liquid

Risk Assessment

Hazards are classified and ranked based on severity. The program identifies hazards are classified/prioritized and addressed based on the risk associated with the task. (See the risk analysis matrix outlining severity and probability).

The transfer of any liquid creates the potential for accidental spills. Spills can present hazards to personnel in the form of chemical exposure. Spills can present hazards to the environment. Spills can present hazards to equipment in the form of fire.

These chemicals can be dangerous down to the parts per billion level. Exposure to some chemicals may be accumulative, meaning that the chemical levels may build up in your body over time.

Depending on the chemical, even small spills may be dangerous the environment and spread quickly. The SDS will had reportable quantity thresholds.

In the vent of flammable liquid spills ignition sources should be extinguished. The area should be cordoned off form ignition sources until cleanup is complete.

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E&B OILFIELD SERVICES INC. RISK ASSESSMENT MATRIX – SPILL PREVENTION

CONSEQUENCE					PROBABILITY				
Severity	People	Assets	Environment	Reputation	A	B	C	D	E
					Not Done	Rarely	Once a week	Several Times in a Week	Multiple Times in a Day
0	No health effect	No damage	No effect	No impact					X
1	Slight health effect	Slight damage	Slight effect	Slight impact				X	
2	Minor health effect	Minor damage	Minor effect	Limited impact			X		
3	Major health effect	Localized damage	Localized effect	Considerable impact		X			
4	Single fatality	Major damage	Major effect	National impact	X				
5	Multiple fatalities	Extensive damage	Massive effect	Global impact	X				

Key	Manage for continuous improvement (Low)	Incorporate risk reduction measures (Medium)	Intolerable (High)
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Preparation: David Abegglen	Authority: Danny Abegglen	Issuing Dept: Safety	Page:	3 of 4



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Preparation: David Abegglen	Authority: Danny Abegglen	Issuing Dept: Safety	Page:	4 of 4

Risk Controls/Methods to Ensure Identified Hazards Are Addressed and Mitigated

The following describes how identified hazards are addressed and mitigated:

- Liquids must be stored and transported in approve, appropriate containers at all times.
- All reasonable steps should be taken to mitigate spills before they occur. The following may be reasonable meditative steps:
 - Spill kits carried in vehicle
 - Shovels / containment tools
 - Back-ups on cam locks
 - Drip pans
 - Warning signs or cones
 - Communication plans
 - Prior SDS familiarity

JSA Sample

The following describes how identified hazards are addressed and mitigated:

Basic Job Step	Potential Injury or Hazards	Mitigation / Tools
Pigging gas line	Chemical contamination	Assume presence of dangerous chemicals. Avoid contact with proper PPE.

Other Info

