Hazard Recognition Process (HRP)!

...identify the energy, manage it and no one needs to be hurt'.

David Grant,
HSE Manager, Ensign International Energy Services
7th June 2012
Our Safety Vision

**Ensign** expects its personnel to achieve year-over-year improvement in safety performance while *Driving to Zero* injuries.

**Ensign** is aiming for a destination called “zero” – zero safety incidents, zero injuries and zero days off work due to injury; in other words, a perfect HSE record. *Driving to Zero* means accepting that every incident is preventable.

**Our Driving to Zero vision** is a “decision to change” - change behaviour and the way things are done to ensure safety is always at the forefront for every employee. As a global oilfield services company, we expect our workers to make safety on-the-job and off-the-job an every day priority by emphasizing five safety principles:

- Participation
- Accountability
- Consistency
- Communication
- Training
'The HRP Process is logical, efficient and systematic in the identification of energy (hazards), and how we go about eliminating, controlling or protecting individuals from a potential release of energy.

Combining the HRP Process in the development of the JSA builds competency within the workforce.

With energy sources being present in all workplaces and at home, what we are instilling in our employees, is that all incidents originate from an uncontrolled release of energy…

....identify the energy, manage it and no one needs to be hurt'.
A Question- Have We Complicated Safety?

- Systems
- Safety Cases
- Bridging Documents
- Procedure Manuals
- HAZID Studies………..etc,etc.
A Job Safety Analysis (JSA /JHA) is a procedure which helps integrate accepted safety and health principles and practices into a particular task or job operation.

Key Benefits include:

- Regular contact between workers and supervisors
- Planning tool
- Training aid for new workers
- Can be used in accident investigations
JSA Concept - Basic Steps

• Select the Job
• Break the job into a sequence of steps
• Identify Potential Hazards
• Determine preventive measures to overcome these hazards
JSA Concept - Ensign Basic Steps

1) Select the Job
2) Break the job into a sequence of steps - Draft
3) List the Steps
4) Assign Step(s) to someone
5) Identify Energy Sources - Hazard Recognition (Spider)
6) Energy Management Actions
7) Stop The Job Triggers
8) Review the Task/JSA on Completion
### JSA Concept - Ensign Basic Steps

**HRP Job Safety Analysis (JSA)**

**Energy Source Code**: M - Motion, C - Chemical, R - Radiation, E - Electrical, G - Gravity, HC - Heat/Cold, B - Biological, P - Pressure

PPE = Hard Hat, Steel Cap Boots, Coveralls, Safety Glasses.

<table>
<thead>
<tr>
<th>Step #</th>
<th>STEPS Sequence of Job Steps</th>
<th>ENERGY HAZARD RECOGNITION AND ASSESSMENT</th>
<th>ENERGY MANAGEMENT ACTIONS</th>
<th>STOP THE JOB TRIGGERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Driver</td>
<td>Remove jack and spare tyre from the boot/trunk</td>
<td>What energy Sources are involved in each job step or the job site environment? How/Where/When could an uncontrolled release or unwanted contact with energy sources occur? How could the energy hurt us, others or the environment?</td>
<td>Eliminate (EL), Control (CT), Protect (PT)</td>
<td>We will STOP the Job if any of the following occurs</td>
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</table>

- **CT** - Plan the lift and placement of the tyre
- **CT** - Ensure boot/trunk lid cannot close
- **PT** - Size-up the load (wheel & jack)
- **CT** - Correct Manual Handling - use two people if appropriate/available
- **CT** - Good foot placement

**Change in the weather**
**Other vehicles in close proximity**
**Other people in close proximity**

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“Performance Excellence – Second to None”
1) Select the Job

2) Determine the Steps (Draft)
   Get the Steps clear in the mind
   (there is a tendency to go straight to the Hazard/Safety and forget Steps)

3) Finalise the Steps

4) Assign Steps

Use the following to help you DRAFT the job steps before starting the JSA:

DRAFT STEPS
1.
2.
3.
4.
5.
6.
7.
8.
JSA Concept - Hazard Recognition

- Motion
- Pressure
- Chemical
- Biological
- Heat/Cold
- Electrical
- Gravity

Eliminate → Control → Protect

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“Performance Excellence – Second to None”
5) Identify Energy Sources - Hazard Recognition

- Brainstorm the hazards related to the task starting at ‘Motion’ and work clockwise
- What Energy Sources are Involved in each job step
- How/Where/When could an uncontrolled release or unwanted contact with the energy Source occur?
- How could the energy hurt us, others or the environment
6) Energy Management Actions

How will the energy be managed to achieve a safe job outcome

- **Eliminate** Engineering, substitution, energy isolation
- **Control** Administrative, segregation materials physical orientation relative to the energy direction, energy limiting or regulating devices, signs restricting access
- **Protective** Barriers Guards, shields, walls, screens, PPE
7) STOP The Job Triggers

Clearly identify what events may take place that will cause us to STOP the job
8) Review the Task and the JSA on Completion
**Implementation - Process**

**Leadership Programme**
- Understanding where HRP can be used to change the culture
- Rig Visits, safety meetings, Safety Observations, incident investigations
- Problem solving, daily conversations

**Foundation Programme**
- Transforms workers' understanding of hazards through a unique "self-discovery"
- Employees recognise, evaluate, and manage hazards and reduce risk when performing a job or task.
- Builds competence in hazard recognition with a common terminology and understanding of hazards

**HRP Coaches**
- Training to develop high-quality HRP Coaches
- Train selected members Rig Managers/Drillers, influential members of our workforce how to implement the HRP Process through practice-based workshops
- Integrates the HRP Process with **job safety analysis**, safety observations, permits, control of work, and daily safety conversations
- Aligns hazard recognition applications with Ensign’s health, safety, and environmental programs
• **HRP Client Trainer Certification Workshop**
  - This comprehensive workshop provides carefully selected workers (typically HSE/Training Personnel) with the expertise required to deliver the HRP Foundation Class
  - Develops high-quality HRP Trainers within Ensign
  - HRP trainers are certified to deliver the HRP Foundation Class in a professional and effective manner
  - Trainees become immersion in the HRP Process and enhancement of training skills
  - Certification is based upon successful training demonstrations and examination

• **HRP Field Coaching and Monitoring**
  - High-quality mentoring in the HRP Process by a highly experienced DPA coach
  - Direct engagement with work teams to coach them in the use of the HRP Process
  - Supports the development workplace safety culture
HRP - the way we work

Four HRP Questions For Safety

1. What energy sources are involved in this job?
2. How can the energy cause harm while we do this job?
3. What are we doing now to be safe? EL? CT? PT?
4. What are the stop-the-job triggers for this job?

Will You STOP the Job?
HRP the way we work

CONTROL
Malaria Control Program (MCP) = Risk Management System

Awareness: know the risks, where, when
complete the fitness for work card

Bite prevention: avoid mosquitoes
Avoid being bitten by mosquitoes, especially between dusk and dawn.
personal protection (including the use of bed nets)

Chemoprophylaxis: essential for non-immune

Diagnosis and early treatment
Use the Malaria Curative Kit as specified by Ensign/Shell

Support the Vector Control Programme

FITNESS FOR WORK

PRE WORK CYCLE QUESTIONNAIRE

Employees are required to take all reasonable steps to
prevent their health and safety.

Malaria can be fatal and employees should ensure that
they have taken all the necessary steps to prevent the
spread of Malaria prior to continuing work, during and
immediately after returning overseas.

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Please complete this pre-shift questionnaire, discuss it
with your Rig Manager on arrival and during weekly
refresher discussions with the Drilling staff on Malaria
prevention including the use of Chemoprophylaxis.
HRP Prevention through Design (PtD) Workshop

- This workshop provides engineering and technical personnel with tools to help reduce workplace risk through the application of the HRP Process during the design and redesign phases of a project.

- Understand how to apply HRP PtD to reduce workplace risk

- Learn how HRP is used to recognize and evaluate hazards and to plan work

- Gain insights into the eight HRP energy categories

- Learn the HRP PtD Guide Questions and how they apply to each phase of a project

- Explore communication methods used to collect information from project personnel such as supervisors, operators, and repair and maintenance personnel

- Practice application of the HRP PtD Guide Questions in table-top scenarios
Moving forward -
Build HRP Process into all our key Safety Processes such as;

- Incident Investigation and Analysis
- Management of Change
- Permit to Work
- Job-Site Inspections
- Job Observations
- Safety Meeting Development
- Leader Coaching and Support
Employee Feedback

“HRP helps with looking at job and how we will do it and what will happen next….it makes sense”

“the HRP octagon makes you think and not just move ahead”

“Before we had HRP we just did the job – now that we have HRP training we think about the job and find the ‘tagua’ or power(energy)….”

“HRP is good for us - before we did not know how to find hazards- now we have knowledge and a process”
HRP the way we work - any Questions

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