TITLE: PERFORM SERVICE-Spot Equipment								HALLIBURTON MANAGEMENT SYSTEM						
PSL REGION Production Enhancement Global					PSL/	Func	tion			DOCUMENT NUMBER: RA-GL-HAL-PE-007				
<b>OWNER</b> Global PASQ	<b>′</b> :	<b>REVIE</b> P	W/RE\ E HMS			<b>'</b> :	REVIEW/REVISION DATE: 31.OCT.2018			PAGE: See Foote				
Global PASQ  Description: Spotting Equipment  Minimum Standard PPE to be worn at all times, (coveralls, steel toe boots, safety glasses, hard hat)  Utilize qualified pe					A R G E	Ris	k Asse Exist	essment ing P	Existing Controls and Countermeasures and or Recommendations to Lower risk			Risk Assessment After E O P		
HAZARD DESCRIPTION		CAUSE	EFFEC	TS	т	v	В	c .	c			/ B		
Lack of access		oment too close together tion too small	Bodily injury		P	II	С	2	Spot equipment to allow unobstructed movement of personnel Rig lines to allow unobstructed movement of personnel Communicate with customer location size needs			I C	3	
Vehicle accident		of spotters an error	Bodily Injury		Р	I	С	1	When possible, visit location pridaccess	or to job to determine b	est I	E	3	
			Equipment / Materi	ial damage	E	II	С	2	Spot equipment as far off should it can be accessed from side loc Set out reflective triangles and u Assign flagger to slow traffic Beware of power lines Survival driver training. Follow o Inform personnel of previous has If Driver loses sight of Spotter, Fimmediately	ation ' ise flashing caution ligh utlined procedure zards			3	

		TITLE: PERFORM SERVICE-Spot Equipm	nent							HALLIBURTON N	MANAGEMENT SYS	TEN	/			
PSL Production Enhancement		REGION Global	ioni	Sub PSL / Function						DOCUMENT NUMBER: RA-GL-HAL-PE-007						
OWNER         APPROVED           Global PASQ         Global PAS			REVIEW/REVISION BY: PE HMS Team					REVIEW/REVISION DATE: 31.OCT.2018	REVISION No: 6.0		AGE Foo					
Description: Spotting Equipment Minimum Standard PPE to be worn at a		Utilize qualified personnel.			Risk Assessment Existing E O P						Asses Af	sk sment ter				
HAZARD DESCRIPTION		CAUSE	EFFEC	TS	Т	٧	В		С			V	E	в С		
Moving Equipment	Poor ' Pinch Impro Impro Shiftir Equip Weat	ator Error Visibility Points per PPE per Rig up ng Load ment Failure her Conditions re-job meeting	Bodily Injury Equipment / Mater Environmental cor	ial damage	P E ENV	II II	c c		2	Experience/Training/Certification SpotterReverse if necessary/MORE THAN ONE IF NECESSARY Proper load out Communication Inspect equipmentshackles, slings, chains/check date tags on equipment to be sure it has been inspected Proper PPE for employees, as well as third party personnel Check for drain plug Proper control of equipment. Preventative maintenance equipment Stay within operating limits of equipment Supervisor discretion with crews Pre-job meeting and checklist Proper positioning Authorized Personnel Only If driver loses sight of spotter, STOP vehicle immediate Chock wheels of parked trucks			ו ו	E 3		
Towing (if required)	Impro Opera Mech Poor	ble ground per hook-up ator error - failure communication lighting / visibility equipment on lease	Bodily Injury Equipment / Mater Environmental cor	Ü	P E ENV	II	B B		1	Perform a hazard assessment address hazardous conditions trips needed Communicate assessment wit party contractor who may be p services for customer. Trained operators Planning & good communication Proper connecting / tow devices Adequate lighting Use spotter to guide around equi Clear area of personnel not requ Use designated hook-up on unit Stay clear of all towing cables or distance for length of cable / cha	terrain and number on the customer and 3rd providing towing  (i.e. slings, clevis, etc.)  pment on lease ired to perform task or advise supervisor straps (adequate	f	D I D	3		

	TITLE: PERFORM SERVICE-Spot Equipme	ent						HALLIBURTON N	MANAGEMENT SY	STEN	1	
PSL Production Enhancement	REGION Global	····	Sub PSL / Function					DOCUMENT NUMBER: RA-GL-HAL-PE-007				
OWNER Global PASQ	APPROVED BY: Global PASQ		REVIEW/REVISION BY: PE HMS Team				REVIEW/REVISION DATE:         REVISION No:         PAGE           31.OCT.2018         6.0         See For					
Description: Spotting Equipment Minimum Standard PPE to be worn at all	Utilize qualified p nard hat)	R Risk Assessment Existing					Existing Controls and Cou Recommendations		Risk Assessme After			
HAZARD DESCRIPTION	CAUSE	EFFE	CTS	Т	v	В	c			v		
Operation of vehicles	Other equipment on lease Ground conditions Adverse weather / poor visibility Backing up Guy wires, electrical lines, flow lines	Other equipment on lease Ground conditions Adverse weather / poor visibility Backing up  Bodily Injury  Bodily Injury  Full B  Equipment / Material damage  E II B								g	I D	3
	Wellhead Poor lighting Poor communication Operator error Not using a spotter 3rd party operators	Environmental col	ntamination	ENV	II	В	1	lease Ensure proper lighting for visibility Assess lease conditions & determine if tire chain should be used Clear area of personnel not needed to perform ta Ensure back-up alarms are working & horn is so every time unit is put in motion (forward or revers Use caution & proper communication with spotte well head and fluid tanks Use spotter to back up and guide all equipment			D	3
Hazardous materials	Improper operation of equipment Improper placement & storage of materials Improper handling of materials Failure to secure (lockouts)	Bodily injury  Absorption, inhala	ition Ingestion	P P	III	СВ	2	Refer to SDS for PPE requiremerespirator, wet suit, goggles, fact Ensure proper stacking & handlitrained personnel (WHMIS)	e shield)	II	I C	
	Working with chemicals (i.e. HCL) Lack of proper PPE / emergency equipment	Absorption, illinata	mon ingestion					Remove all sources of ignition Trained personnel on spill preve	ntion, response &			
	Ignition sources	Environmental spi	ill or release	ENV	III	В	2	remediation Provide necessary resources (i.e Trained operators (i.e. forklift)	e. spill kits)	II	I C	3
		Fire & explosion		Е	II	В	1	Ensure all lockout devices are in exiting warehouse Know location of emergency sho		d II	[ [	3
TARGET: P: Personne	el E: Equipment DT: Down	Time DC: Data	EN	V: Env	l vironr	l ment	I: Interf	i ace		!		

	RISK ANALYSIS MATRIX																		
		Potentia	al Conseque	ences		Probability Rating													
Hazard Severity Category	Descriptive Word	Personnel Illness/Injury	Equipment Loss(s)	En	vironmental	A Frequent	B Reasonably probable	C Occasional	D Remote	E Extremely Improbable	F Impossible								
I	Catastrophic	Fatality or Permanent Disabling Injury or illness	>\$1,000.000	environmenta \$1,000.000 or			environmental damage or requiring 1,000.000 or more to correct and / or		environmental damage or requiring \$1,000.000 or more to correct and / or		environmental damage or requiring 1,000.000 or more to correct and / or		nvironmental damage or requiring 000.000 or more to correct and / or		1				
II	Critical	Severe Injury or Illness	\$200.000 to \$1,000.000	environmenta \$200.000 - \$1,			environmental damage or requiring 200.000 - \$1,000.000) to correct and		environmental damage or requiring 200.000 - \$1,000.000) to correct and			2							
III	Marginal	Minor Injury or Illness	\$10.000 to \$200.000	environmenta \$10.000 - \$200	n (less then 1 year) al damage or requiring 0.000 to correct and / or a penalties				3										
IV	Negligible	No injury or Illness	<\$10.000	be readily rep than \$10.000	nental damage that can vaired or requiring less ) to correct and / or in penalties														
	Note the number 1, 2, 3 these numbers represent the "Risk Priority Code"																		
	Probab	ility Rating			Risk Prior	ity Code	(RPC)		Targets: P Personnel										
Level Des	cription			Code Ac	tion Required	E Equipment													
Frequent: Likely to occur repeatedly during activity / operation				1	High Risk: Imperative to	DT Downtime		ntime											
B Reasonably Probable: Likely to occur several times				II II 2	Medium Risk: Operation management		DC Data												
C Occasional: Likely to occur sometime					Operation Permissible	ENV Environmenta													
D Remote: Not likely but possible				Note: Pick	Priority Code of less tha		ı Interf	ace											
E	Extremely Improba	ble: Probability of o	ccurrence cannot		Note: Risk Priority Code of less than 3 is  NOT ACCEPTABLE for hazard that target personnel  HALLIBURTC														

## **Instructions for Risk Analysis Matrix**

- Step 1: After identifying a significant hazard, first consider the Potential Consequences. For example, what if the accident occurs.
- Step 2: After considering the Potential Consequences such as Severe Illness or Injury, identify the Hazard Severity Category (for example, II)
- Step 3: Now consider the Probability Rating. If it is Reasonably Probable that the accident would occur, the rate would be "B"
- Step 4: Follow the Hazard Severity Category (II) across the line until it dissects with the Probability Rate (B). This shows a Risk Priority Code (RPC) of "1".
- Step 5: RPC 1 is unacceptable. STOP THE JOB! Institute controls to reduce the risk to an acceptable level with an RPC of 3.

Contact your manager if the risk can not be reduced to RPC 3!

Note: When the RPC is 2 and the hazard impacts people, this is still an unacceptable level of risk.

NOTES:	Revision
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31.OCT.2018	6	Annual review, no revisions.
25.APR.2017	5	Annual review, no revisions.
OCT.2015	4	Annual review, no revisions.
SEPT.2014	3	Annual review. Revisions in Hazard: Towing
SEPT.2013	2	Annual review. No revisions
SEPT.2012	2	no revisions
SEPT.2011	2	
SEPT.2010	1	
Original Document	1	May, 2009