

Alpha Offshore Project WHP3

Job Safety Analysis (JSA)

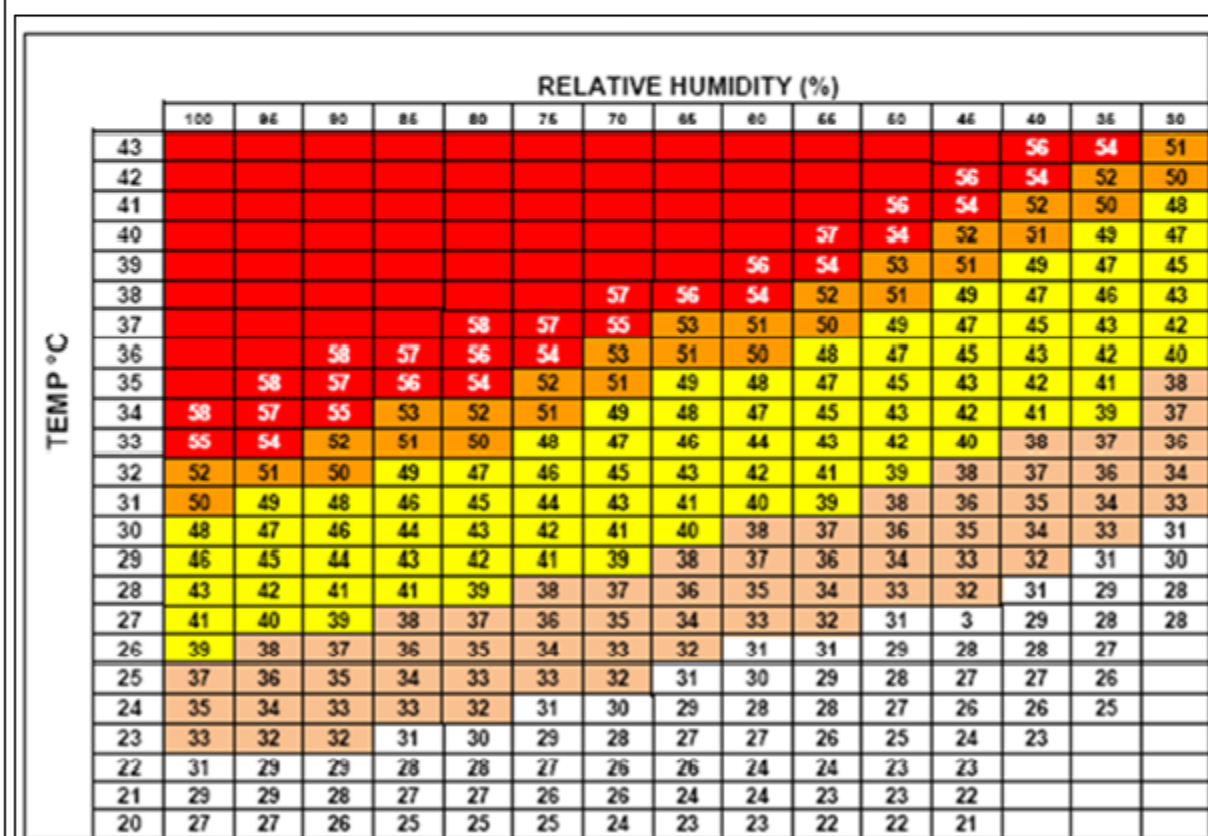
JOB Description	Removal of dead anchor from Deema crane boom, and lowering crane wire rope to WHP3 Helideck. Remove crane block, untwist wire rope, re-install crane block to crane wire. Lift up, and re-install dead anchor to crane boom.	DATE	26.02.2015
Performing Authority	IRATA L3 Rope Access Safety Supervisor: Vladislav Melnicov	LOCATION	WHP-3

DEPARTMENT	Piping	Permit NO		SAFETY ANALYSIS PERFORMED BY:	Rope access Level-3.
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Hard Hat	X	Leather Gloves		Respiratory Protection		Gas Detector		Safety Sign	X	Hot Work Permit	
Safety Shoes	X	Rubber Gloves	X	Hearing Protection		B.A. Set		Barricades	X	Cold Work Permit	X
Safety Glass	X	Kong Type Gloves		Safety Harness w/ Lanyard	X	Standby Watch	X	Rope access rescue kit	X	Lockout/Tagout – LOTO required	
Face/welding shield		Electrician glove		Life Vest / PFD		Fire Extinguisher		Standby Boat		Confined Space Entry	
Goggles		Leather Apron		Life Ring / Rope		Fire watch		Air cool / Ice vest		Certified Lifting Equipment	

Sequence of Job/Activity (Step by step process of Task)	Hazards Identified (What could cause an injury/Incident?)	Control Measures (What will be done to minimize the risk of injury/Incident?)
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1. Performing work during Heat Stress season in the Moon Offshore - April 01 to September 01



Heat Index Graph for Flag Changes

Heat Stress related illnesses
Dehydration
Lack of equipment for heat stress management on site
Workers unaware of risks of working in Qatar in heat season


HEAT INDEX	WATER CONSUMPTION	WORK / REST CYCLE	SYSTEM OF WORK
27-31	1 CUP EVERY 20 MINUTES	WORK 50 MINUTES - REST 10	CONTINUAL MONITORING
32-38	1 CUP EVERY 20 MINUTES	WORK 40 MINUTES - REST 10	NO WORKING ALONE
39-49	1 CUP EVERY 10 MINUTES	WORK 30 MINUTES - REST 10	WORK UNDER SHADE
50-53	1 CUP EVERY 10 MINUTES	WORK 20 MINUTES - REST 10	NO ELEVATED WORK
> 54	ALL WORK STOPPED		

Heat Stress Measures that are mandatory to be in place:

- Provide well stocked supplies of cool drinking water and container at the work station. Ice to be in boxes minimum 3 x per day
- **Workers to carry water flask/pouch at all times.**
- Workers to drink plenty of water and/or electrolyte solutions and follow Heat Index guidelines.
- **No water No work enforced by SUPERVISORS**
- Temperature Monitoring & Heat Indicator Flags system to remind workers of temperatures and heat index guidelines to follow.
- **Shade must be provided for workers in direct sun for Heat Index above 38C**
- A/C cooled rest areas for workers on Drill and Production deck.
- Air cooled or ice pack type vests to be worn by personnel exposed to work in extreme temperatures
- Heat Stress Training Mandatory for ALL personnel Buddy system - **No work alone over 32 C**
- **Direct Supervisors responsible for monitoring compliance for their work zones.**
- **SUPERVISORS responsible for managing worker rotations according to index chart.**

		Heat Index Guide for Water Consumption & Work Rest Cycles	
2.	Job Preparation on site	<ul style="list-style-type: none"> Personnel do not understand the task, associated risks or areas where work is permitted. Additional personnel on site working on PTW Working on tasks not permitted by PTW / JSA Working on task trying to use a different permit from another task. Unsafe work or work conditions Incorrect or No PPE 	<ul style="list-style-type: none"> Supervisor to conduct TBT, read PTW and JSA to workers before commencing work. Translate as required. 5x5 risk assessment. Supervisor to ensure that all personnel sign on to the PTW/JSA TBT sheet before they commence work, including additional personnel. Supervisor responsible to ensure no work is conducted on tasks not permitted in PTW/JSA Supervisor, foreman and workers are responsible to ensure that all work is done on correct permits, sharing of other permits are not allowed. It is everyone's responsibility to Intervene if unsafe work is being performed and STOP work if conditions are unsafe. Approved PPE only on work site. <ul style="list-style-type: none"> No Cotton Gloves- No Cotton Gloves with rubber palms Wear ALL required PPE required on WHP
3.	Mobilize of material to work location (Manual Handling)	- Unsafe manual handling	<ul style="list-style-type: none"> - Use proper hand glove while working. - Care to be taken when handling material. - Limit the load per person. - Follow basic safety rules for manual handling. - Use mechanical aids if necessary.
4.	Work at height, dropped objects during installation rigging equipment.	- Impact injuries, damage to equipment	<ul style="list-style-type: none"> - Work in accordance with the written procedure. - Tools and equipment secured by lanyard, secured haul sacs to be used, heavy items over 8kg. to be independently secured on the extra rope. - Do not stand directly under any lifting operations. - Third parties to be kept clear using exclusion zone. - Safety signs will be in place.
5.	Movement or transfer during work task.	Slip & Trip	<ul style="list-style-type: none"> - Good housekeeping eliminating trip hazards. - Supervisor emphasizes not to allow rope access equip. to trail creating a trip hazard. If ropes rigged from helideck, exclusion zone should be in place to prevent other contractor trips.
6.	Working in harness	Suspension trauma	<ul style="list-style-type: none"> -limit time working from harness -take regular breaks -Rescue kit
7.	Rope Access	Fall from height	<p>Work task will carry out follow:</p> <ul style="list-style-type: none"> - IRATA International Code of Practice for Industrial Rope Access - Safework4you AAA BB 100a Job Specific Risk

			Assessment - Safework4you AAA BB 101a Safety Plan, Method Statement and Rescue Plan - Safework4you AAA BB 102a Rope Access Operations Procedures
8.	Move Deema crane boom over WHP3 Drill deck	Restrict WHP3 Crane operation	Before lower Deema crane boom over WHP3 Drill deck, WHP3 Crane should lift up from rest position and keep at standby position over North side of Platform.
9.	Work at Deema crane boom end, High wind speed	Crane Boom or personnel collision with structure or WHP3 Crane	Monitor wind speed regularly contacting Deema radio room by radio; Do not work or stop work, if wind speed over 20 knots.

				
Work Approved by GGG Construction Mgr.	Action by: Performing Authority	JSA Approved by GGG HSE Dept.	JSA reviewed by Vendor HSE	