

GLDD FLEET

5 MECHANICAL



DREDGE 55

19 HYDRAULIC



DREDGE TEXAS

7 HOPPER



LIBERTY ISLAND





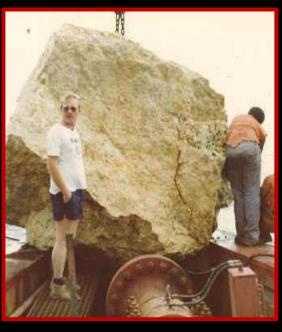




LETS TALK ABOUT SAFETY!



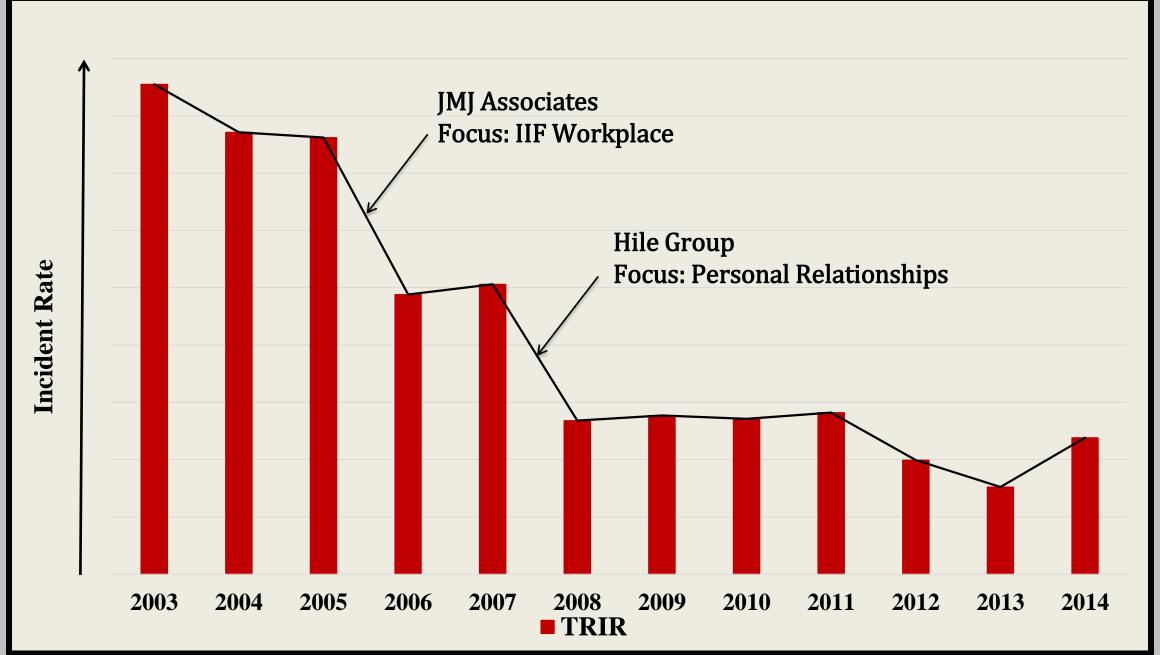
TRANSFORMATION











BUILDING A PROACTIVE SAFETY CULTURE

- -- Good communication, goals and follow up actions
- ---- Frontline and upper management involvement
- → Effective safety tools
- → Regular training initiatives
- → Accountability program

MANAGEMENT INVOLVEMENT





Life

Today

Craft-Specific Rules and Recommended Practices

18. Hydrographic Surveying











SEE ALSO BATTERIES; ELEVATED AND CLIMBING EQUIPMENT; PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING

- 1. Remove ice and/or apply salt before working on the deck in icy conditions.
- 2. Before performing hydrographic surveys:
 - Review navigational charts and Notice to Mariners for area hazards.
 - Ensure at least two crew members are present.
 - Establish communication between survey vessel and any dredge when surveying in the vicinity of a dredge.
 - Communicate survey activity to vessels via radio during and after any operation.
- 3. Wear fall protection when working from an elevated surface of six feet or more.
- 4. Approach all vessels and/or docking situation at minimal speed.
- 5. Use buddy system whenever on the back deck.
- 6. Ensure electrical source to equipment is turned off. Follow lockout/tagout procedures before repairing, installing, or removing electrical equipment.
- 7. Ensure hand jewelry is removed and wear gloves before performing a bar check.
- Conduct nighttime surveys only when authorized and qualified.
- 9. Carry a light source in diminished-light work areas.
- 10. When working on the roof:
 - Confirm weather conditions include good visibility and roof conditions are free from debris or ice.
 - Use buddy system.

Craft-Specific Rules and Recommended Practices

Recommended Practices

Stop hydro survey if visibility is less than a half mile.

Confirm wave conditions are at four feet or less before operating a vessel 30 feet long or less.

Lower engine speed if any personnel are outside of the cabin and while



JOB SAFETY ANALYSIS

A safety tool used to identify all known and potential hazards associated with each step of a task and involves a discussion among all workers involved with the task

HAZARD CONTROL & RECOGNITION: The 6Ts

Today

Task

Tools

Tidy Up

Transition

Time Out



Safety

Analysis

	JOB TITLE:		Date: 03/08/2014		JSA NO.: 1	
			PAGE: 1 OF 1		REV: 1	
				Written By: A. Roznowski		
	LOCATION of JOB		Tools to Be Used:☐ Riggin	orches Air Tools		
MAROVEMENTS	Drades Tayon Cu	ttor Comico	Hand tools Weldin	ther		
JOB SAFETY ANALYSIS	Dredge Texas Cu Platform/Lev		Tool safety and inspect	e JSA briefing *Other transducer and zip ties		
REQUIRED AND/OR RECOM	MMENDED PERSONAL	PROTECTIVE E			JSA REVIEWED BY:	
					A. Roznowski	
☐ Hearing Protection	☐ High visibility v	est Other:	VHF Radio		Supervisor's Signature	
-			ENTIAL HAZARDS	RECOMMENDA	TIONS TO ELIMINATE	
MAJOR JOB	MAJOR JOB STEPS		CONSEQUENCES	OR REDUCE HAZARDS		
Acquire Proper PPE and Tools	Acquire Proper PPE and Tools		eping	Replace tools to original proper location		
Notify crew not involved in JSA of calibration efforts		Lack of communication can lead to injury		Notify Captain and other crew in working area of plans for calibration of the ladder and what to be aware of. Communication for the calibration will be performed with VHF Radio, Channel 8		
		A potentially dangerous situation may have been overlooked.		Involving more personnel in the JSA including the leverman, Captain, and an auditor(Chief) allows for other suggestions to arise which could help to eliminate potential hazards that may have been overlooked.		
Transfer to and inspect path to the service platform, ladder and service platform using buddy system		Debris removed from cutter, cutter teeth and other items are often on the service platform causing a potential for slips, trips and falls. A slip or trip could cause personnel to fall into the water, onto the cutter head or on the stairs.		Have all personnel participate in inspection of the ladder and stairs. Distribute tools needed for the job evenly so everyone can maintain three points of contact on the stairs. Once on platform, r assign everyone's position and re-check tripping hazards. Use buddy system to prevent falling into the water.		
Attach tape measure/pressure sensor to cutter head		falls into the water or onto the c cutter rotation on cutter service	addy system when leaning over to attach sensors to ensure no one not the water or onto the cutter. Use localized controls(LOTO) for er rotation on cutter service platform to bring the teeth to you so leaning over is minimized.			
		Mis-communication could lead to ladder moving before reading is taken. Unexpected movement of cutter service platform due to traffic.				
Remove tape measure/pressure sensor from cutter head using snips to remove zip ties		A DOMESTIC CONTROL PROPERTY	e water when leaning over, of snips could lead to injury.	Use buddy system when leaning over to attach sensors to ensure no one falls into the water or onto the cutter. Use localized controls(LOTO) for cutter rotation on cutter service platform to bring the teeth to you so leaning over is minimized. Use snips properly to cut zip ties and remove equipment from cutter head.		
		ALL WORK MU	IST STOP IF YOU DEVIATE FROM TH	HE JSA PLAN		



HAZARD CONTROLS



JOB SAFETY ANALYSIS AUDIT







Safety

Analysis

Job Sa	afety Analysis (JSA) Audit Card
Date: <u>03</u>	3/08/14 Auditor: <u>B. Markey</u>
Project Number: 72	Task Name / Number: Calibrate Ladder depth
Routine Non-Routine	Vessel / Foreman Fill Site: Texas Captain / Chief B. Markey
Task Supervisor:	A. Roznowski Asst. Project Engineer
Witness the JSA	(Name) Yes No
Witness the Task	✓ Yes No



Safety

A nalysis

A	UDIT IT	EMS:	The 6 T's			YES	ŝ S	NO		
1.		Y et at the task	area			\square				
	o Ins	spected acces	s ways to and from			abla				
	o Co	onsidered the	environment for to	day	844 M 2008 (190	abla	Monda			
2.		eviewed the ta	isk in steps.		Very Good	Sati sfactory	Needs Improvemer	nt Unaccepta	ble	
	o En	isured each ci	rewmember knew h	is role						
	o Re	ecognized, an	alyzed and mitigate	d the hazards	, . .					
	o Co	ommunic ation	/Conversation							
3.			ered and inspected t	the tools		YES		NO		
	o Ide	entified requi	red PPE			\checkmark				
4.			er the task - Discuss	ed during JSA		\checkmark				
	o Sto	owed all tools	s and equipment - Γ	Discussed during J	SA	\checkmark				
5.	TIME	OUT				YES		NO		
2.			yone agrees with th	e plan		abla				
	o Re	eminded every	yone to call "Time (Out"		\square				
	o Wa	as "Time Out	" called?			\square				
	o IF	so was there	a JSA revision disc	ussion		\square		172 1934		
6.		SITION entified the er	nd of this task			\square				
	o Tra	ansitioned to	the next task & JSA	A, if applicable		\square				



Safety

Analysis

7.	Coaching to the Task Supervisor (suggested issues after JSA) Yes No				
		individual giving the JSA brief had never conducted one r to this. Some steps were unclear during the initial brief.			
		sing steps were identified by other members of the team ng the brief.			
8.	Quizzing Crew for Feedback (suggested topics)				
	- Query crew on understanding task/hazards or other topics Yes No Crew had stepped in at different points to elaborate on the hazards.				





Safety

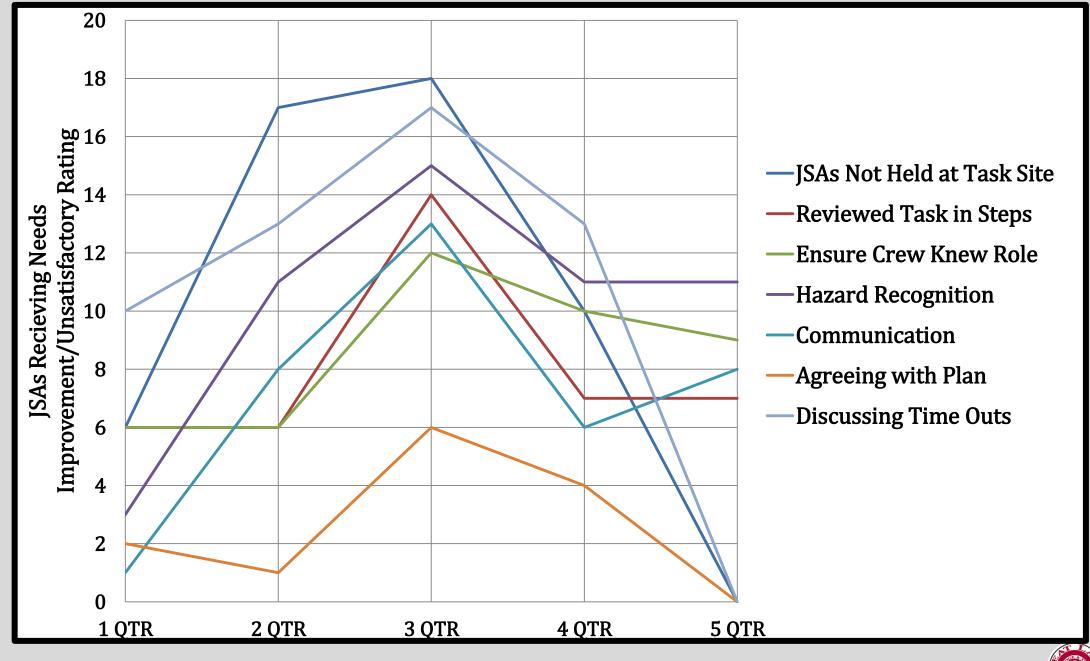
Analysis

have the leverman as part of the brief. The isseem to fully understand the task. Other mer and what could be elaborated on further. As reinforce the task for the people on the platform task and had the steps of the procedure listed JSAs are written for tasks in the engine room	ar. The brief was given by Ryan. JSA brief was done in the lever room to individual giving the JSA brief was a fairly new employee and did not imbers of the team stepped in and helped him point out what was missing second JSA brief was conducted on the cutter service platform by Ashley to form that were working in that task area. The JSA form covered the major don the JSA. I have spoken with both Ashley and Gino about the way in to compare approaches. Ashley called change of condition (Time Out) on the leverroom about the readings during the calibration. Ryan could use orough in his approach.
Report Back - Discussed with: (Check Choice(s)	SSHA ☐ Captain ☐ Chief ☑ PM ☐ SM ☑ Task Supervisor ☑
Ask Task Supervisor to Rate his JSAAuditor Overall JSA Rating	Very Needs Good Satisfactory Improvement Unacceptable \[\sqrt{\sq}}}}}}}}}} \qquat\sqrt{\sq}}}}}}}}}}} \qrignt\sqrt{\sqrt{\sq}}}}}}}} \end{\sqnt{\sqnt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}} \sqnt{\sqnt{\sqrt{\sqrt{\si

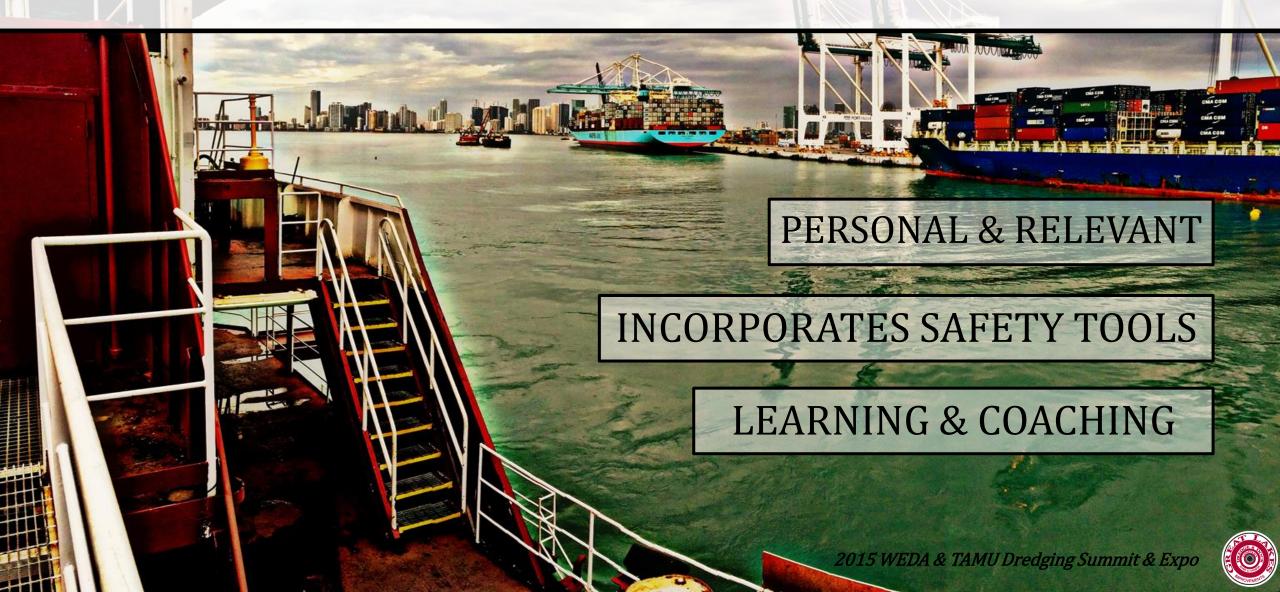


Safety

Analysis



ACCOUNTABILITY "See it. Own it."





GLDD SAFETY COMMITMENT STATEMENT

"All GLDD employees are committed to an <u>Incident and Injury Free</u> work environment, in which we return safely to our families"

