

Seacor Marine Risk Assessment / JSA system

Risk Assessment Made Easy

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Background

- Existing RA system seen to be ineffective;-
 - Not comprehensive enough
 - Not very user friendly
 - Not used enough
 - Dust gatherer
- Decided we need a more user friendly system
 - Started research and investigation in 2004. Concept and look developed, computer based system envisaged.
 - Excel based system tried, but found limited and difficult use
 - Recognised that Access would be better platform
 - Discussed with corporate IT but major acquisition occurred which precluded allocation of resources

Seacor Marine (International) Limited Safety Guidance and Risk Assessments		Revision Number: 18 Date Effective: 2004.1.11 Approved by: P. J. Moore Page 19 of 120	
Machinery Associated Equipment		Risk Assessment Form	
Assessment No.: 1		Revision Date: 11.02.04	
Assessment Date: 1.8.2000		Revision Date: 11.02.04	
ACTIVITY: (If not applicable) Machinery Associated Equipment	Scenario: (If not applicable) (If = Risk Factor (RF))	CONTROL MEASURES	
HAZARD	Severity	Risk	Residual Risk
Moving Machinery As mounted Equipment	Severe - Death	1 x 1 = 1	Low
From its rotating and 'operating parts' of machinery's attachment, suspension and its stored energy - control may be engaged, captured and locked or tagged off. Budget & COOP to be followed. Work permit to be issued as appropriate.			

Background

- 2005 New paper system based on concept issued;-
 - Up to date
 - Manual, guidance and training
 - User friendliness improved
- Result;-
 - Dust gatherer
 - Not used enough
 - Still not user friendly enough (they did not use it!!)
 - Glazed eyes syndrome
- Early 2006 decision taken to use programmer to develop user friendly database to help write Risk Assessments

SEACOR MARINE (INTERNATIONAL) LTD.
RAJIB SAFETY ANALYSIS

TASK ACTIVITY	EQUIPMENT - GENERIC	VESSEL LOCATION	ASSESSORS	NO. LOCATIONS	PAGE 1 OF 1		
PERSONNEL INVOLVED	AL DREW / DIBT	ASSESSORS	S. PENNIS, P. GIBSON				
DATE	28.02.05	REVIEW DATE(S)					
POTENTIAL SEVERITY		SEVERITY OF OCCURRENCE					RISK RATING
Death	Asset	Environment	Personnel	Other	Other		
1	Equipment Error	Significant Damage	Significant Contaminated	Significant Injury	Significant Damage	Significant Injury	High
2	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium
3	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium
4	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium
5	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium
6	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium
7	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium
8	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium
9	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium
10	Minor Error	Minor Damage	Minor Contaminated	Minor Injury	Minor Damage	Minor Injury	Medium

No	POTENTIAL HAZARD	HAZARD EFFECT	POTENTIAL RISK (L, M, H)	CONTROL MEASURES TO MINIMIZE RISK	RESIDUAL RISK
1.	Lack of training	Misuse of equipment resulting in a serious injury or asset damage.	3c Med	Qualified crews, pre employment selection, induction, training, information, supervision, procedures and design factors.	1a Low
2.	Lack of information	Misuse of equipment resulting in a serious injury or asset damage.	3c Med	Manufacturer's information and operating instructions on board, procedures, training, supervision, back up from Engineering Dept, notices posted, barriers and guards in place, restricted use.	1a Low
3.	Lack of correct PPE	Injury	2e Med	Appropriate PPE supplied, policy & procedures, signage, information, supervision, training and enforcement.	1b Low
4.	Incorrect use	Serious injury, asset damage	3c Med	Certification requirements, pre employment selection, induction, policy & procedures, information, supervision, training, restricted use design factors.	2b Low
5.	Use of broken or worn tools	Injury, Asset damage	2c Low	Correct tools supplied, replacement on request, training, supervision	2b Low
6.	Lack of guards	Serious injury caused by the machinery	3c Med	Guards supplied and fitted, Safety officers inspections, training, supervision, information, design factors, procedures, surveys, audits, lock out tag out system.	2b Low
7.	Incorrect equipment	Injury, Asset Damage	2a Low	Correct equipment supplied, design factors, training, information, procedures and supervision.	1a Low
8.	Lack of Maintenance	Serious injury, Asset Damage	3c Med	Planned maintenance systems, training, supervision, certified and qualified crews, vessel inspections, information, audit, surveys, inspections and procedures.	2b Low
9.	Incorrect Maintenance	Serious injury, Asset Damage	3c Med	Planned maintenance system and guidance, training, supervision, certified and qualified crews, vessel and audit, surveys, inspections, procedures.	2b Low
10.	Lack of lock out / tag out	Fatality	5a High	Planned to work system, Risk Assessments system, training and experience, supervision, procedures.	2b Low

Generic / 002 / Equipment

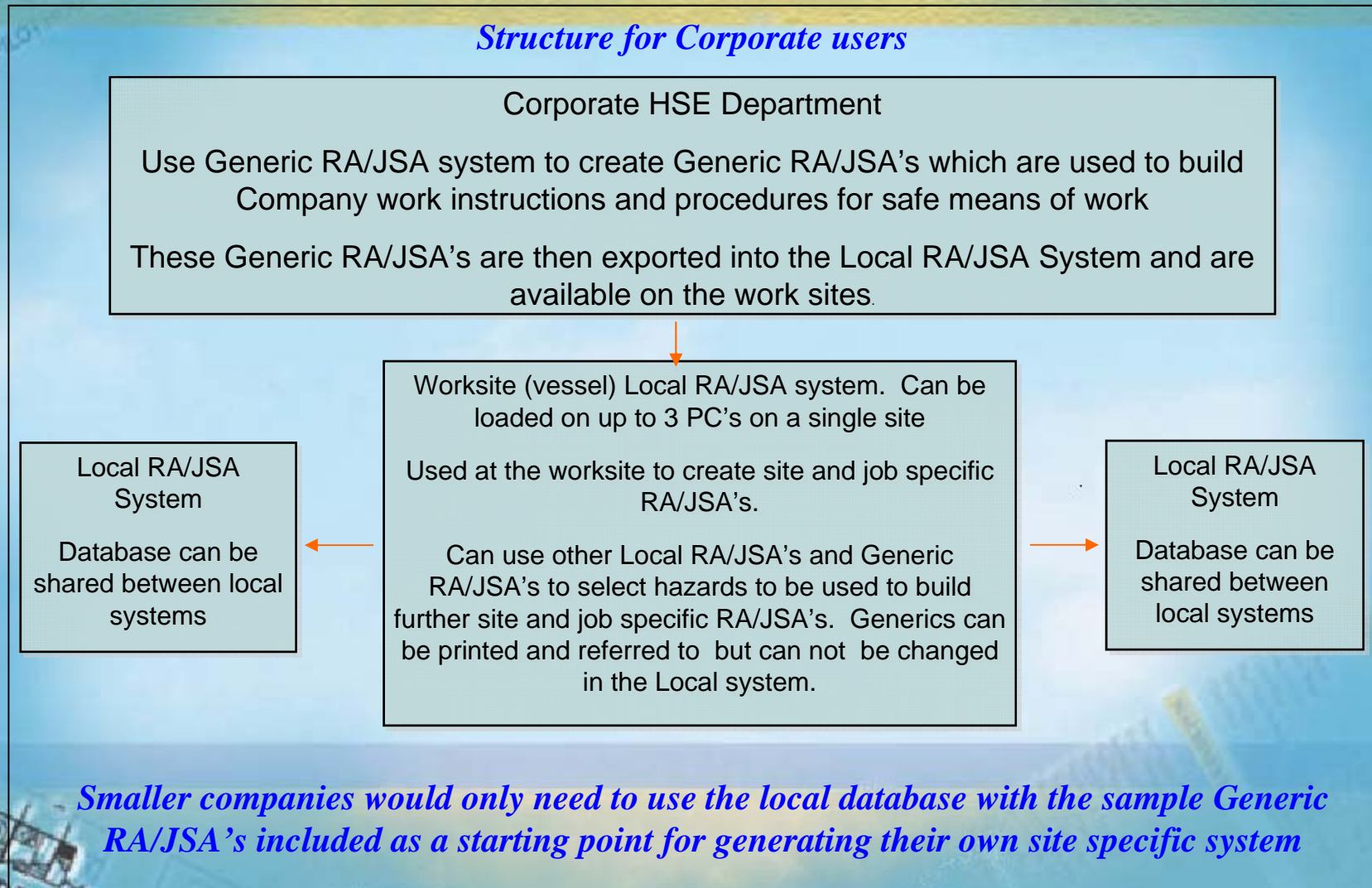


Progress

- First version rolled out to fleet June 2006
 - Within 3 months clear improvement seen
 - Risk assessments being regularly carried out
 - Hazard awareness increased
 - Glazed look syndrome replaced with enthusiastic ownership and understanding
 - Reduction in number and potential of accidents seen
- Aug 2006 started further refinement to enable adaptation to suite other divisions of Seacor
- Sept 2006 Decision taken to share with industry necessitating further development
- Nov 2006 First 'Commercial' version launched in USA.
- May 2007 Improved 'Commercial' version issued.

Structure

Structure for Corporate users





Process

- Completed RA's only valid once printed
- Printed RA's used to conduct a toolbox talk prior to the work commencing
- Routine tasks can proceed using Generic or existing local RA for toolbox talk
- Manual supplied with instructions, examples full set of Generics and section for local RA's

