WE CAN HELP

SERVICES:



- Training
- Risk Assessment Software Apps
- Consulting and **Exprert Witness**

RESULTS:

- Empowered with knowledge
- ✓ Compliant with codes/standards
- Risk Assessments Completed
- Inspections Passed
- ✓ A productive & safe work environment



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Complete Risk Assessments in minutes!



MACHINE SAFETY **SPECIALISTS** Machine Safeguarding Experts

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MACHINE SAFETY SPECIALISTS

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PRODUCT **& SERVICE INFORMATION**

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Location: Manufacturing B

RD-437

BRT-NXC

Machine #

SAP#

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Instruction: Please follow Risk Assessment Steps below. Use Risk Assessment Flow Chart and Risk Estimation Matrix.

Machine name

Building

	-			Ris	k Level:	1–8 Re	present	s Low Lev	vel	9–14	4 Represents	Mediur	m Level 15–20 Represents High Le	vel									
						Risk Leve	I Estima	ite			•		Method of Reduction				Fin	al Risk I	Estimate				
Task #	Task	Affected Persons	< Hazard Type	Frequency of Exposure 1,2,4	Probability of Injury 1,2,4,6	Severity of Injury 1,3,6,10	Number of People Exposed	Protracted time in Danger Zone	Est. Risk Level ^{ble*}	ra ? De	Design Safe- guarding	Admin. Controls	Method description	Date Final Follow-up Assessmen t	Owner	Frequency of Exposure 1,2,4	Probability of Injury 1,2,4,6	Severity of Injury 1,3,6,10	Number of People Exposed	Protracted time in Danger Zone	Final Risk Level	Tolerable?	Notes
	Normal Operation																						
1	1 Open guard to load or unload materials. Guard interlock switch not safety rated. Circuit not control	Operator / Helper	10.1 - Failure/disorder of the control system	4	4	10	1	0	18 No	þ	x	x	Add safety rated switch and control reliable stopping circuit. Ensure all guards comply with OSHA/ANSI guard openings. E-Stop	e ##########	J. Wells	1	1	6	1	0	8	Yes	
2	2 During production, operator cleans excess material off press.	Materials Handler	1.1 - Crushing hazard	4	2	6	1	0	12 No	þ	x	x	Light curtain detects operator presents, utilizes functional safety rated components and wired in a control reliable way to remove power to the press. Operator use	; ##########	J. Wells	4	1	3	1	0	8	Yes	
									0 Ye	s											0	Yes	
	Maintenance Activities																						
3	Replace hydraulic cylinder.	Maintenance Personnel	1.9 - High pressure fluid injection or eiection hazard	1	6	10	1	1	18 No	þ		X	Use LOTO procedures to insure all energy is removed.	<i>#########</i> ###########################	J. Wells	0	0	0	1	1	1	Yes	
									0 Ye	s											0	Yes	
	Commissioning/Other									_													
4	N/A - Machine already installed.								0 Ye	S											0	Yes	
5	Plant Visitors are not allowed close to machine. Supervisors are trained operators.								0 Ye	S											0	Yes	

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Assessment Team Members

Start Date: [Date]

Accident follow up? Yes or No

Team Lead: Jeff P. Wells

[Names here] Members:





Equipment:	[Machine Name here]	[Mac	hine # here] [Other ID h	ere]	
	Machine name	Machine #	SAP#		
Location:	[Building Name here]				Tea
	Building				
	Note: This free risk assessment spreadsh	neet is intended for b	asic applications in the l	Jnited States. This should	
	not be used for robotics large or complex	machinery or inter	national compliance requ	irements Contact MSS	

ents. Contact MSS not be used for robotics, large of complex machinery, or international comple for risk assessments for robotics or applications that are beyond the scope of this tool.

Members:

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Instruction: Please follow Risk Assessment Steps below. Use Risk Assessment Flow Chart and Risk Estimation Matrix.

Risk Level: 1–8 Represents Low Level 9–14 Represents Medium Level 15–20 Represents High Level																								
					Risk Level Estimate									Method of Reduction		Final Risk Estimate								
Task #	Task	Affected Persons	Hazard Type	Frequency of Exposure 1,2,4	Probability of Injury 1,2,4,6	Severity of Injury 1,3,6,10	Number of People Exposed	Protracted time in Danger Zone	Est. Risk Tole Leve I	erable ?	Design	Safe- guardin g	Admin. Controls	Method description A	Date Final Follow-up Assessment	Owner	Frequency of Exposure 1,2,4	Probability of Injury 1,2,4,6	Severity of Injury 1,3,6,10	Number of People Exposed	Protracted time in Danger Zone	Est. Risk Level	Tolerable?	Notes
	Normal Operation																							
									<mark>0</mark> Y	/es												0	Yes	
									<mark>0</mark> Y	/es												0	Yes	
	Maintenance Activities																							
									0 Y	Yes												0	Yes	
									0 Y	Yes												0	Yes	
	Commissioning/Other																							
									0 Y	Yes												0	#REF!	
									0 Y	Yes												0	#REF!	

Steps to Conduct Risk Assessment

- 1. Identify tasks done by operator that expose operator to hazard
- 2. Identify hazards of that task
- 3. Categorize hazard type header comment box identifies possible hazard types (right click to show/hide comment); cell dropdown may be used for selection
- 4. Enter frequency value use cell comment box and dropdown values
- 5. Enter probability value use cell comment box and dropdown values
- 6. Enter severity value use cell comment box and dropdown values
- 7. Enter number of people exposed to that hazard at the same time
- 8. Enter value for protracted time in danger zone use header comment box for values
- 9. Risk level will be calculated
- 10. Repeat steps 2-9 for all tasks
- 11. If risk value is >8 for any task then continue to step #12 for each
- 12. Identify method of reduction select design, safeguarding and/or administrative controls and provide brief description
- 13. Recalculate risk score (steps 4-8) with reduction method in place
- 14. Repeat process (steps 1-13) for Maintenance tasks and for Visitors or other hazard exposure

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Assessment Team Members

Start Date: [Date]

Accident follow up? Yes or No

am Lead: [Name here]

[Names here]



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Estimated Risk Value = Frequency + Probability + Protracted Time + (Severity x # of People Exposed)

Frequenc	Frequency of Exposure									
Value	Factor	Definition								
1	Seldom	May Possibly occur during an eight (8) hour shift								
2	Occasional	Will occur during an eight (8) hour shift								
4	Frequent	Will occur more than four times in an eight (8) hour shift!								

Probabilit	y of Injury	
Value	Factor	Definition
1	Unlikely	When exposed to the hazard, an injury is easily avoided.
2	Possible	When exposed to the hazard, an injury can be avoided.
4	Probable	When exposed to the hazard, an injury is unlikely to be avoided.
6	Certain	When exposed to the hazard, an injury cannot be avoided.

Protracted Time										
Value	Factor	Definition								
0	Short Duration	Less than 15 minutes								
1	Protracted	Greater than 15 minutes								

Severity		
Value	Factor	Definition
1	Minor	No/slight injury requiring no more than first aid (little or no lost work time)
3	Serious	Significant injury/illness requiring more than first aid (able to return to same job)
6	Major	Severe debilitating injury/illness (able to return to work at some point)
10	Fatal	Death or Permanently disabling injury (unable to return to work)

Risk Value Scale: 1–8 Represents Low Level, 9–14 Represents Medium Level, 15–20 Represents High Level



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