	Equipment: Minster AB-123-CD Model / Generation / Tooling Design										Assessment Team Members:									
	Location: Module # 1 #33 #12345 Starting Date: 5/1/2009																			
	Type of Equipment:	Press				ABC-1		•		: Plant	В	-								
		w Safe Guarding Seminar							/latrix!											
	Use the ANSI B11.TR3-2000 Hazard Table to Assist in Identification of Hazards and Promote Consistency!  1–8 Represents Low Level, 9–14 Represents Medium Level, 15–20 Represents High Level																			
		48 4	1–8 Represents Low Level, 9–14 Represents Med Risk Level Estimate							olum Le										
*	Hazard Iden Identified	# Hazard Type (From	Frequency	Ris	Severity	Estimate Number	e I Est	Accident	Tolerable	By	Dy Safo	By	Reduction  Method of Addressing Risk	Frequency of	Probability o	ollow-Up	Number of	Final Risk	Tolerable?	
Hoboro*	Hazard	Hazard Table Annex A)	of Exposure		of Injury	of People Exposed	Risk	Review Yes/No	Yes/ No	Design	guarding	Admin.	Reduction or Current Method in	Frequency of Exposure 1.2.4	Injury 1,2,4,6	Injury	People Exposed	Level	TOICIADIC:	
Zy Zy		Ann	1,2,4		1,3,6,10	Exposed	Level	res/No			]	Controls	Place Making it Tolerable!	1,2,4		1,3,6,10	Exposed			
	Guarding Concerns																			
1	E-stops not redundant or properly monitored	14.0 Failure of Control Circuit	2	2	6	1	10	у	No	X	X		Add redundancy and safety monitoring relay	2	2	6	1	10	No	
2	Guard switches not in conformance	14.0 Failure of Control Circuit	2	4	6	1	12		No	X	X		Change guard switches & add safety monitoring relay	1	1	1	1	3	Yes	
3	D.C. capacitive buss of AC drive not isolated from motor	14.0 Failure of Control Circuit	2	2	6	1	10		No	X			Make M1 contactor a safety type and move between drive & motor	1	1	1	1	3	Yes	
4	Inch function on guards open not appropriate	14.0 Failure of Control Circuit	2	2	6	1	10		No	X	X	X	Change guard switches and add safety monitoring relay. Add two- hand control monitoring relay.	1	2	1	1	4	Yes	
5	CR2, CR3, MCR not in conformance	14.0 Failure of Control Circuit	2	2	6	1	10		No	X			Change to safety relays with appropriate monitoring	1	2	2	1	5	Yes	
6	No flywheel motion detection	1.d Mechanical Hazard- mass and velocity (kinetic energy of elements in controlled of uncontrolled motion)	2	2	6	2	16		No	Х		X	Add stopped motion detector and indicator	1	2	1	2	5	Yes	
7	Software not adequate for above items 1-6	,	3	3	3	1	9		No	x			Modify software to accommodate above modifications. Items 1-6					0	Yes	
8	Main motor drive belts	Cutting Severing     hazard, Entanglement     hazard	1	2	3	1	6		Yes			X	The backside of this guard is open. This unit sits approx. 15 ft. above the ground. No access on top of press while running					0	Yes	
9	Flywheel	Mechanical Hazard- mass and velocity (kinetic energy of elements in controlled of uncontrolled motion)	1	2	6	1	9		No	X			Flywheel is "counter sunk" in press housing & covered with fiberglass guard.					0	Yes	
12	Main jackshaft	1.3 Cutting Severing 1.4 hazard, Entanglement hazard	1	1	3	1	5		Yes		X		Drive belt is totally surrounded by a guard					0	Yes	
34							0				<u> </u>							0	Yes	
35							0			_	_							0	Yes	
	Operational Concerns						0											0	Yes Yes	
$\vdash$							$\vdash$			-	+							0	Yes Yes	
$\vdash$							0			<del>                                     </del>	+							0	Yes	
	Maintenance Concerns						0											0	Yes	
							0											0	Yes	
							0											0	Yes	