

Photo 2: Observation

SUTTER CORE MACHINE REPORT

Identification								
Company/Project	[Name Removed]	Status/Revision	Preliminary Rev_0					
Asset/ID Number	Sutter Core Machines 20,21	Date	07-19-2017					
Auditor Name	Ken Hackworth	Auditor Signature	K-Ha-5					





Photo 1: Machine Overview



Photo 3: Observation



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Machine Safety Report

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Evaluation Criteria							
Criteria	Observation						
Applicable U.S. Codes and Standards	Applicable U.S. Codes and Standards OSHA 29 CFR 1910.219, ANSI B11.TR6, ANSI B11.0, ANSI B11.19, ANSI / NFPA 79, OSHA 29 CFR 1910.212						
Machine Guarding Checklist							
Question		Answer					
Requirements for all Safeguards (OSHA Basics of Machine Safeguarding)							
Do the safeguards prevent contact with the point of operation, ingoing nip points, rotating parts, flying chips, and sparks?							
Do the safeguards prevent workers' hands, arms, and other body parts from contacting dangerous moving parts?							
Are all hinged, adjustable, or removable guards interlocked with a safety switch?							
Do the safeguards ensure that no object will fall into the moving parts?							
Do the safeguards permit safe, comfortable, and relatively easy operation of the machine?							
Can the machine be oile	d without removing the safeguard?	N/A					
Mechanical Hazards - I	Point of Operation (OSHA 1910.212)						
Is there a point-of-opera	tion safeguard provided for the machine?	No					
Does it keep the operator's hands, fingers, body out of the danger area?							
Are all safeguards in place, with no evidence of tampering or removal?							
Is the machine equipped	I with effective safeguards (unlikely to bypass)?	No					
Power Transmission Apparatus (OSHA 1910.219)							
Do the safeguards prevent contact with any unguarded gears, sprockets, pulleys, or flywheels?							
Do the safeguards prevent contact with any exposed belts or chain drives?							
Do the safeguards prevent contact with any exposed set screws, key ways, collars, etc.?							
Are Start, Stop, and Emergency stop controls within easy reach of the operator?							
If there is more than one operator, are separate controls provided?							
Are safeguards provided for all hazardous moving parts of the machine including auxiliary parts?							
Control Reliability (ANSI B11.19 / NFPA 79)							
Are all safety devices approved for safety (rated PLd or PLe)?							
Are all safety circuits wired dual channel?							
Are all relays and contactors in the safety circuit force guided?							
Are the safety relays or	Are the safety relays or contactors the final switching elements (not going to PLC)?						
Does each safety relay or contactor have feedback signals wired back to the safety relay/controller?							
Is hazardous motion stopped by redundant relays, redundant contactors, or safety drives with safety rated stop (STO, ST1, etc.) signals?							
Non-mechanical Hazar	ds						
Are administrative control	ols in place to safeguard workers from noise exposure exceeding 85 dBA?	N/A					
Have special guards, enclosures, PPE, or administrative measures been provided to prevent access to surface temperatures meeting or exceeding 140 deg. F?							
Hazardous Energy Control - Partial Checklist (OSHA 1910.147)							
Does the client have a program for control of hazardous energy sources (lockout/tagout)?							
For this machine, do procedures exist for shutting down, isolating, blocking, and securing (locks/tags) energy?							
For this machine, are all energy-isolating devices accessible and capable of being operated in a manner that isolates the machine or equipment from the energy source(s).							

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Observations											
Observed Hazards		Crushing / Impact, Failure to Stop Moving Parts, Unintended / Unexpected Start-Up									
Existing Sat Devices	ety	Awareness Barriers, Emergency Stop Devices (Palm / Push Buttons or Rope / Cable Pulls), Supervision Personal Protective Equipment						on,			
Additional Observation	s	No safety rated devices found in control panel. Safety systems are not control reliable. Poorly guard machine. Verify prints to determine if OEM guards have been removed. No blocking devices or met					. Poorly guarded evices or metho	ds of			
Video?	Yes	removing potent	al energ	y were obs	served.				C		
Affected	Affected		Mair	ntenance	Vi	sitors	Other				
Persons		Yes		Yes		Yes			_		
Estimate	d Ris	k with Exis	ting S	afegua	irds	Es	timate	ed Risk Level:		LUMBR	
Injury Severity	S3: S2: S1:	Serious Moderate Minor	Exp	osure	E0: Pr E2: Hi E1: Lo	evented gh ow		Avoidance	A3: N A2: N A1: L	lot Possible lot Likely .ikely	
Notes: Complementary Protective Measures May be Used in Conjunction with the Above Risk Reduction Methods but Shall not be Used as the Primary Risk Reduction Factor. One or a Combination of Elimination, Substitution, and Safeguarding or SRP/SC is REQUIRED to Reduce Risks to an Acceptable Level.											
Recomme	enda	tions			Contro	ol Circuit	?	Yes			
	Ris	k Reduction M	ethod(s	5))			Safety Circuit Integrity			
Design		Safeguard	ing	Admin.Co	ontrols	PL		Catego	ory	ControlRelia	bility
Actions/ Methods	Add Yellow Background to E-Stop(s)., Add/Repair guarding as needed to prevent ANSI scale reach., Hazards are within ANSI safety scale reach., Make all safety circuits control reliable. This requires dual channel circuits with monitoring/feedback and approved safety components (safety relays, safety interlock switches, etc.)., Lockout/Tagout (LOTO) training needed for operators, maintenance, and supervisors. Enforcement required., Add or improve documented personnel training.										
Devices Fixed Guards, Interlocked Guards (With or Without Locking Mechanism), Awareness (Safety) Signs., Emergency Stop Devices (Palm / Push Buttons or Rope / Cable Pulls), Safety Light Curtains (Screens) and Safety Single/Multiple Beam Devices, Safe Work Procedures, Supervision, Personal Protective Equipment, Area Scanning Presence-Sensing Safeguarding Devices, Safety Mat Devices, Safe-Location Safeguarding.								ency			
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