



RISK CONTROL MANAGEMENT PROCEDURE

Product Description Excavator Series U Series
 Model U17-3 Serial No. _____
 Attachment/s _____ Revision A
 Date 06/06/2008
 Date of inspection _____ Location _____
 Inspected by Benjamin Binns Title R+D Manager
 Signature _____

Select unit type with ✓
 SAMPLE UNIT
 PRODUCTION UNIT

Select Risk type with ✓
 Operational
 Maintenance

1..Hazard Analysis and Risk Assessment

HAZARD	RISK SOURCE	SAFETY MEASURE	OCCURANCE	
			Probability	Consequence
Entanglement	Tracks	SOP, Decals, Travel Alarm, Operating Clearance Zone	UL	S
Crushing	Roll Over, Boom & Tracks	Certified ROPS/FOPS and seatbelt, SOP, Decals, Operating Clearance Zone, Travel Alarm and horn	UL	S
Cutting, Stabbing, Puncturing				
Shearing	Blade (bystanders)	SOP, Decals, Operating Clearance Zone,	UL	S
Friction				
Striking	Boom, Machine, Twin Pattern Selection System	Boom Swivel Pedal lockout, Operator control locks, horn	UL	S
Electrical	Overhead/Underground power	SOP, Decals, Dial before you dig, "Look up and Live"	UL	S
Slipping, Tripping, Falling	Mount/Dismount	Hand Rail, Non Slip Mat	L	M
Noise	Engine	Within regulation sound level	L	M
Manual Handling				

Probability Scale
 L = likely
 UL= unlikely

Consequence Scale
 S = major injury/fatality
 M = minor injury

Striking by Boom or Machine	Boom Swivel Pedal lockout, Operator control locks, horn	2/7/2006	On Going
-----------------------------	---------------------------------------------------------	----------	----------



Risk Control Table

Risk	Control Measure (how / who / time frame)	Implementation date	Review Date
Electrocution	SOP, Decals, "Dial before you dig", "Look up and live"	2/7/2006	On Going
Slipping/tipping from Mounting/Dismounting	Hand Rail, Non Slip Mat	2/7/2006	On Going
Engine noise	Complies to current regulations	2/7/2006	On Going
Eye damages from dust/debris	PPE, SOP	2/7/2006	On Going

3. Review

The above Risk Assessment to be reviewed during the life of the product if an upgraded model is introduced or information is obtained about a previously unknown hazard.



RISK CONTROL MANAGEMENT PROCEDURE


Product Description Excavator Series U Series

Model U17-3 Serial No. _____

Attachment/s _____ Revision A

Date of inspection _____ Date 06/06/2008

Inspected by Benjamin Binns Location _____

Signature  Title R+D Manager

Select unit type with

SAMPLE UNIT

PRODUCTION UNIT

Select Risk type with

Operational

Maintenance

1..Hazard Analysis and Risk Assessment

HAZARD	RISK SOURCE	SAFETY MEASURE	OCCURRENCE	
			Probability	Consequence
Entanglement	Fan/ Fan Belt	Guards, Decals, SOP (Do not open hood with engine running)	UL	S
Crushing	Loss of hydraulic pressure	SOP (lower boom and blade to ground before conducting any maintenance)	UL	S
Cutting, Stabbing, Puncturing				
Shearing				
Friction	Hot liquids, Exhaust	SOP, Decals, Exhaust heat shield	UL	M
Striking	Engine & Hydraulic Hood	Hood support strut, Lock	UL	M
Electrical	Battery maintenance	SOP, Battery manufactures maintenance procedures	UL	M
Slipping, Tripping, Falling				
Noise				
Manual Handling				
Other hazards	Machine Movement	Park on hard level surface, lower boom and	UL	S

Probability Scale
 L = likely
 UL = unlikely

Consequence Scale
 S = major injury/fatality
 M = minor injury

blade to ground, stop engine and remove keys before beginning any maintenance.



2. Risk Control

Risk Severity Table

		Probability	
Consequence	L	High	UL
	S	Medium	Medium
M	Low	Low	Low

Implementation of Risk Control:

Where a risk to health and safety has been identified utilizing the Risk Severity Table, controls to eliminate or minimize the risk are required.

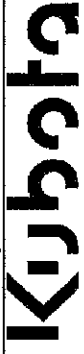
The control is to be selected from the following hierarchy of controls:

- Level 1 Eliminate the hazard
- Level 2 Minimize the risk from the hazard
If the hazard cannot be eliminated, the machine should be constructed to minimize the risk *as far as practicable*.
- Level 3 Provide back up controls
Provided levels 1 and 2 have been exhausted, back up controls include administrative controls governing work practices (eg operator's manual safe working instructions) and personal protective equipment.

Risk Control Table

Risk	Control Measure (how / who / time frame)	Implementation date	Review Date
Fan/ Fan Belt	SOP in manual, Safety Decals, Fan guard	2/07/2006	On Going
Hydraulic Pressure Loss	SOP in manual	2/07/2006	On Going
Hot liquids	SOP in manual, Safety Decals, Exhaust heat shield	2/07/2006	On Going
Battery Maintenance	Battery Manufactures maintenance procedure	2/07/2006	On Going

Machine movement	SOP, Park on hard level surface, lower boom and blade to ground, stop engine and remove keys before beginning any maintenance.	2/07/2006	On Going
------------------	--------------------------------------------------------------------------------------------------------------------------------	-----------	----------



Risk Control Table

Risk	Control Measure (how / who / time frame)	Implementation date	Review Date
Engine Hood	Hood Support Strut	2/07/2006	On Going

3. Review

The above Risk Assessment to be reviewed during the life of the product if an upgraded model is introduced or information is obtained about a previously unknown hazard.