IAGRE Conference

Paul Reynolds CMIOSH
NFU Mutual Risk Management Services Ltd

- Risk Management Solutions a Case Study

- What does a health & safety consultant do?
- Tell you what you can’t do?
- Put obstructions in place?
- Quote the law?
- Make a mountain out of a mole hill?

- What would you say if one of your clients said to you
- I have this job to do
- It’s high profile
- I don’t know what my client wants

What does this project look like

What does this project look like

What will it be able to do?

What else can it do?

Interesting, so what else can it do?

What do you want from me?

- Not sure
- The health & safety advisor from the BBC is here
- They want a risk assessment

Easy that’s what we do

- Identify the hazards
- Who’s at risk?
- Evaluate the risks and decide on precautions
- Record your findings and implement them
- Review your assessment and update if necessary

Lets have a look at the hazards



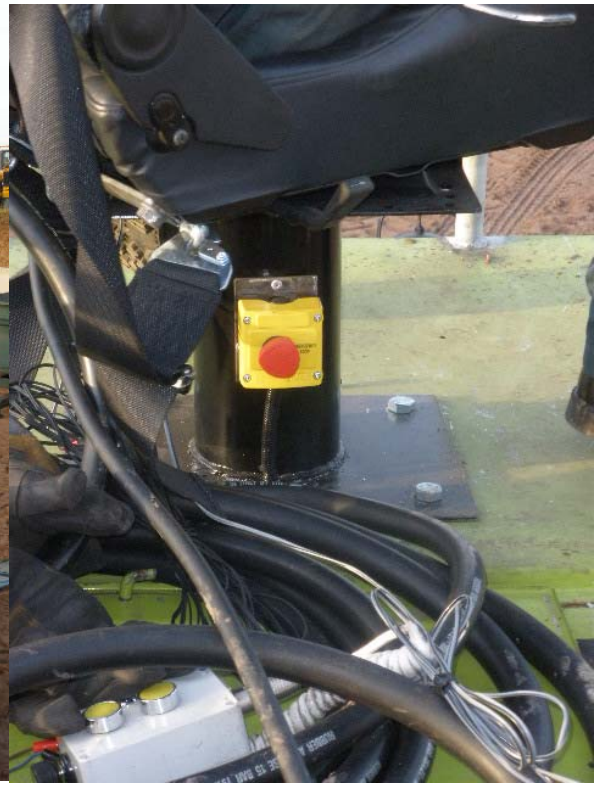





Who’s at risk?

Evaluate the risks and decide on precautions

Evaluate the risks and decide on precautions



Evaluate the risks and decide on precautions

Record your findings and implement them

Howard Marshall Risk Assessment Top Gear

TASK / ACTIVITY: Operational hazards from modified CLAAS Dominator combine

TASK DESCRIPTION:

This document is to describe the hazards and controls present on the modified Claas Dominator combine harvester, modified by Howard Marshall Engineering following commission from the BBC Top Gear Programme

MAIN HAZARDS:

Crushing	☒	Direct electrical contact	☒	Hot ambient temperature	☐
Cutting / shearing	☐	Indirect electrical contact	☒	Cold ambient temperature	☒
Entanglement	☒	Short circuit / overload	☐	Adverse weather conditions	☒
Trapping	☒	Fire / explosion	☒	Asphyxiation / drowning	☐
Impact	☒	Ionising radiation	☐	Significant noise	☒
High pressure injection	☒	Repetitive actions	☐	Significant vibration	☒
Abrasion	☐	Stressful postures	☒	Hazardous substance	☒
Slips / trips	☒	Lifting / handling	☒	Localised hot surface(s)	☒
Falls from height	☒	Fatigue / stress	☐	Localised cold surface(s)	☐
		Violence / assault	☐	Other:	☐
				Please specify:	

PERSONS EXPOSED:

Employees	☒	Visitors	☐	Maintenance staff	☐
Public	☒	Contractors	☒	Other:	☒
Vulnerable Groups	☐	Cleaners	☐	Please specify: BBC Employees, onlookers, crowds	

CURRENT CONTROL MEASURES:

- Various emergency stops have been fitted to the vehicle in areas where the operators will be standing, when operated these will kill the engine immediately.
- A fire extinguisher has been fitted too the rear of the machine.
- A safe system of work will be followed prior too starting the machine such as sounding the horns several times prior too start up to warn people in the locality that the machine is about too start.
- The machine has hydraulics that have been checked prior too the machine being modified.
- The small generator located at the rear of the machine fitted too run the hot water urn in the cab has a 30 mA RCD fitted too protect the operator from electric shock.

Record your findings and implement them

- The noise levels are considered to be above 80 dB(A) but have not been measured,therefore if prolonged exposure is expected then hearing protection should be worn when standing close too the machine.
- Anti-slip treads have been fitted onto areas with potential for slips at height.
- Access steps with handrails have been fitted to allow people to access the top of the vehicle.
- Vehicle fumes are controlled via exhausting engine fumes from the rear of the vehicle.
- Where moving parts have the potential too entangle people they have been covered with suitable guards.

LEVEL OF RISK?	Low ☐	Med ☒	High ☐

ADDITIONAL CONTROLS REQUIRED: **DATE**

- The hazard identification document that accompanies this risk assessment should be communicated to all persons operating or working near too the machine.
- The height of the machine should be assessed and a sign placed in the cabin denoting the height. Note the additional seat and cage that is too be fitted should be included in this height check.
- It should be checked by the operator that there is enough clearance for over head power lines when travelling by road or across fields.
- The area at the top of the vehicle where the grit is to be fed into needs too be padded out.
- The exposed belts below the movable auger should be covered in via mesh.

NOTES:

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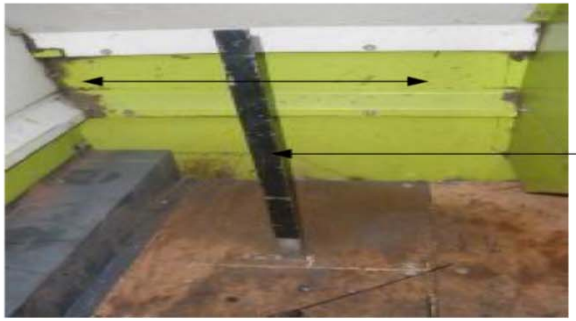
ASSESSOR'S NAME:	Paul Reynolds in association with Howard Marshall Engineering	**DATE:**	06/01/11
SIGNATURE:	.....	**REVIEW DATE:**	06/01/12
JOB TITLE:	Health & Safety Consultant		

Record your findings and implement them

Grit introducing hopper, note moving parts below mesh, do not remove mesh.

Control for horn, and switch for reading light all other switches dead



Control for Augur movement located in hopper area, lever moves fore and aft.

Record your findings and implement them

Emergency stop in hopper area kills engine once operated

Handrails fitted around areas at height and access steps, note position of fire extinguisher

Record your findings and implement them

Emergency stop position below seat of flame thrower operator

Fan for blowing grit through auger, note grill fitted over end of intake too prevent ingestion

Emergency stop fitted in cab of machine for driver too operate.

Record your findings and implement them

Note engine cover in up position, moving engine parts such as fan blades and fan belts located below this hatch, hatch should be closed when running vehicle

Snow clearing blade moves up and down, controlled from cab by driver

Fan for blowing grit through auger

Record your findings and implement them

Flame thrower fires from this position too approximately 5 metres.

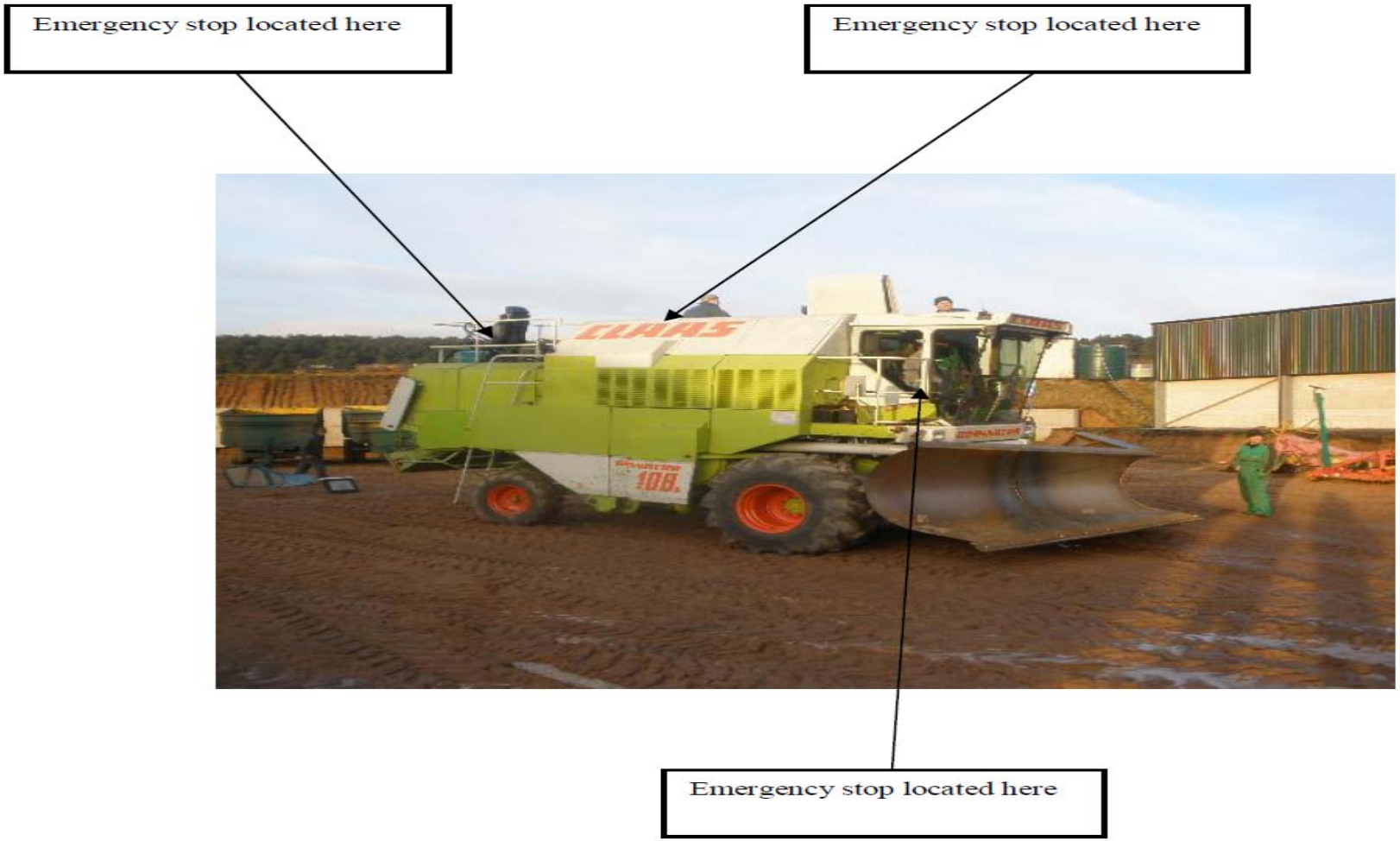
Grit blast area, note delivery pipe can move in an arc away from the vehicle

Moving parts behind this cover

Water boiler located in cab powered by remote generator mounted in back of machine, generator has RCD protection to protect operator, hot water contained in vessel.

Flashing amber light to be flashing whilst being used on road.

Record your findings and implement them



In conclusion

- A health and safety consultant should:
- Provide you with solutions
- Help you with client relationships
- Not be seen as hindering a business
- Enhance the process
- Give simple pragmatic solutions
- Help

- Thank you are there any questions
- My contact details
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