



Economic Recession



Increasing Accidents



Regulatory Cuts

Introduction and Overview

- 3 flawed forms of safety governance:
 - Market forces: 3rd party effects;
 - Tort and insurance: inefficient and retrospective;
 - State regulation: risk based, can be bureaucratic.
- 2007 recession cut regulatory budgets 30%+
- Can we assess any impact on safety?
 - Fewer inspections and enforcement actions?
 - Less competent/motivated regulators?
 - Fall in accidents less than fall in economic activity.



Safety Governance 1: Market Forces

- People do not demand unsafe products?
- Some politicians still seem to believe this...

Limits on Market Forces: 3rd Party Effects

Safety Governance 2: Tort and Insurance

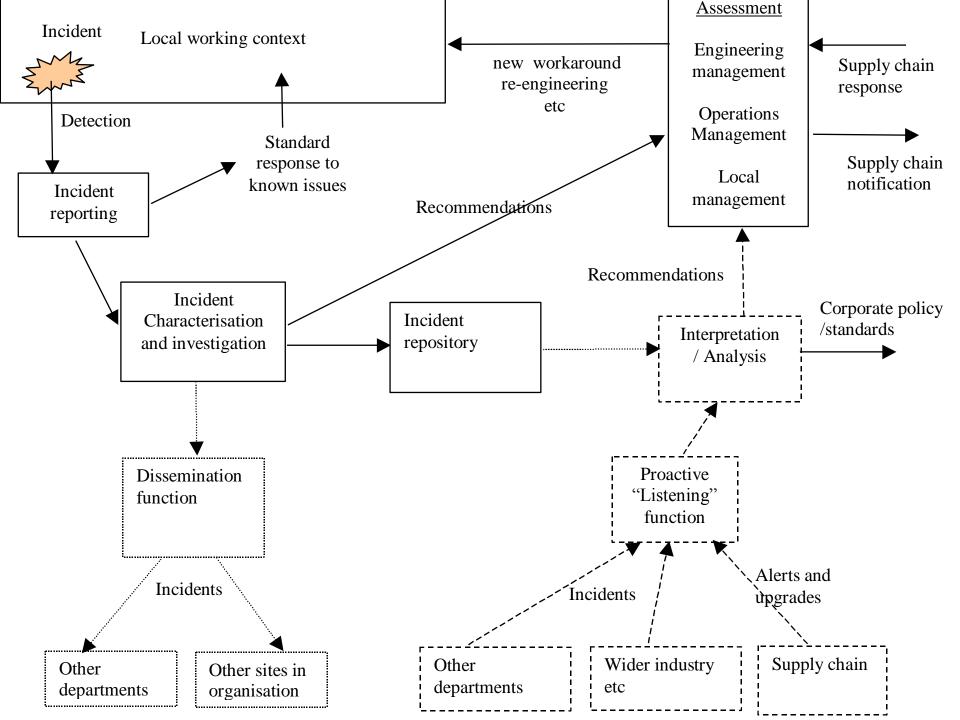
Look, I'm not blaming you, I am just suing you...

Safety Governance 2: Tort and Insurance

- 1999, Los Angeles County jury.
 - \$4.8 billion in punitive damages against GM;
 - 6 victims in car rear-ended by drunk driver;
 - Car catches fire, later reduced to \$1.2 billion.
- Third parties use tort for compensation:
 - Costs so high, companies improve safety?
- Individuals cannot assume they will win;
 - So they also take steps to improve safety.



Safety Governance 3: Different forms of Regulation





What Do Regulators Do?





What Do Regulators Do?





The Public View





Industry View

Safety Footwear Standards Explained EN345 / EN ISO 20345:2007

What you wear on your feet really matters. Getting the right footwear will make life safer and easier. Employers are legally responsible for providing the correct footwear. Protect now.

The safety footwear standard is refered as EN345, EN ISO 20345:2004, and EN ISO 20345:2007. All footwear designed before 2004 and still manufactured up to today carries EN ISO 20345:2004. EN ISO 20345:2007 is the latest standard for footwear designed or retested after 2007.

The EN ISO 20345:2007 standard sets out minimum requirements that safety footwear must be successfully tested against

The standard specifies all safety footwear must have toe protection. In addition to different protective features footwear represented by a comination of letters.

All Safety Footwear in this standard is at least SB which means it has toe protection against a 200 Joule impact

Rating	Features		
SB		Key	Description
SB-P	P	A	Antistatic footwear
S1	A + FO + E	E	Energy absorption of heel region
S1-P	A + FO + E + P	FO	Resistance to fuel oil of outsole
S2	A + FO + E + WRU	P	Penetration resistance
S3	A + FO + E + WRU + P	WR	Water resistant
S4	A + FO + E + Waterproof	WRU	Water resistant upper
S5	A + FO + E + P + Waterproof		

Toe protection (SB)

Your toes are a very vunerable part of your body, especially in a work place. Toe protection must withstand a 200 joule impact. Joule is the unit of energy and this standard is purposefully specific. Something heavy falling from a low height could have a lot less energy than something lighter from a much higher height. As well as impacts the toe area must withstand a resting mass of well over 1000kg.

Most people have heard of steel toe cap boots but the protection doesn't have to be steel. Infact there are advantages to alternatives. Non-metallic protection can be equally as strong but lighter.

Antistatic protection (A)

Clothing, seating materials, and climate factors can cause a build up a static charge of electricity in the body. Some materials in footwear can over insulate the body causing the charge to be held. When you then touch something the charge can rush from your body quickly causing a spark and a small uncomfortable shock. Antistatic footwear will significantly reduce this effect but does not offer full protection for exposure to electronics and explosives work. You will need Electro-Static Protection (ESD) for this.

Midsole penetration protection (P) - SB-P, S1-P, S3, S5

Sharp objects where we walk and stand are significant risk not only in the workplace but also outdoors and at home. Midsole protection will guard against nails and other objects. To meet this standard the footware must be able to resist a penetration force of 1100N. Midsole protection is provided in one of thee methods: a stainless steel insert in the sole, aluminium insert in the sole, or by Kevlar insole. The Aluminium and Kevlar solutions are the most flexible and lightest and cover the greatest area of the foot. Kevlar insoles also offer much higher thermal insulation.

Energy Absorption (E)

Energy Absorption in the heel region

Water Resistant Upper (WRU)

Water resistant upper, not used on all rubber or polymeric footware.

Heat Resistant (HRO)

Heat resistant Outsole: To resist 300°C for 60 seconds

Lifecycle phase	IEC 61508	Detailed taxonomy	IEC 61508 ref		
Concept					
Detail Scope Lazard & Risk Assessment Risk		1. Hazard identification	7.2.7.3.7.4		
Risk Assessment	•	2. Consequence and likelihood estimation			
Risk Assessment	Hazard &	-	<u> </u>		
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Regulation in Crisis (August 2007)

- Sub-prime mortgages on bank balance sheets;
 - Government recapitalisation of banking sectors.
- The negative multiplier (1);
 - Government reduce deficit, demand falls;
 - Demand falls so companies sell less;
 - Less sales so government starved of taxes...
- The negative multiplier (2):
 - Economic uncertainty=more risk, banks reduce credit;
 - Less credit so private enterprise cannot invest;
 - Less investment reduces demand, more uncertainty.

Recessions Improve Safety?

- Companies fewer resources for safety;
 - Hard to show impact of safety spending...
- 2009 HSE survey of 200 employers:
 - 26% to cut health & safety budget in recession;
 - Under-reporting is a serious concern...
 - 59% "proactive health and safety enhances profit";
 - In 2007, this figure was 72%.

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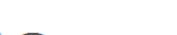
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14 August 2012 Last updated at 14:42



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Fire service cover lacking in East Sussex towns: FBU

Towns and villages in East Sussex are being left without local fire cover while cuts are being planned, according to the Fire Brigades Union (FBU).

The union has criticised East Sussex Fire and Rescue Service (ESFRS), claiming that appliances have not been available for emergencies due to staff shortages.

They claim that further cuts will make the situation worse.

ESFRS said response times would not be affected by a reduction in funding.

The service will see a reduction in central government funding of £1.9m by 2016/17.

In a statement, the FBU said: "It seems apparent to the FBU that ESFRS senior managers, and indeed the fire authority of East Sussex, are comfortable with the situation, whereby whole villages and towns have no fire cover supplied by their local fire station and firefighters.

'Deaths risen'

"They are relying on neighbouring stations and firefighters who would have long travel times and distances to attend any emergency.

"Over the last year deaths due to fire have significantly risen within East Sussex and any further cuts, in the opinion of the FBU, will lead to further Related Stories

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Sci/Envi

10 September 2012 Last updated at 13:53



Luke Jenkins death partly due to 'low staffing' levels

A boy who went into hospital for heart surgery suffered cardiac arrest and died partly due to staff shortages, a report has said.

Luke Jenkins, seven, of Cardiff, was expected to make a recovery after surgery at Bristol Children's Hospital.

A report said he was moved from intensive care 24 hours after the operation because of "increasing demand" on beds in the department.



Luke was born with a congenital heart defect and was in hospital for surgery

Later, ward staff did not "fully consider" why bleeding had increased.

The report, put together by an investigative team at University Hospitals Bristol NHS Foundation Trust, said "the workload and patient dependency is recognised as being significant" in Luke's death.

When he collapsed on his ward, junior staff did not know where a vital piece of resuscitation equipment was kept.

The report added the lack of knowledge had "caused a delay" but it was "minor and would not have affected the outcome".

Recessions Improve Safety?

"Inadequacy of resources, both money and staff complement, and the difficulties in maintaining a sustainable cadre of suitably competent staff are the principal threats to safety in the defence nuclear programme in the medium term"

(UK MoD Head of Nuclear Safety, 2012)

Case Study: UK Construction

- 2010-2012:
 - UK construction industry contracted by 5%;
 - Number of public houses built fell by 18%;
 - Public non-housing construction fell by 21%.
- No significant rise in fatal injuries:
 - UK 2006 (191), 2009 (104), 2011 (120).
- Might expect greater fall, so:
 - Accidents independent of economy/risk exposure?
 - Need more detailed statistical analysis?



Government Pressure on Safety Regulation

Chair of UK Health and Safety Executive

"The HSE has of course had to take its share of savings...



The headline figures are that HSE is required to make a minimum of 35% savings.

But let's put that into context. Savings of 35% are the norm across Department of Work and Pensions.

So we are not being treated more harshly than anyone else"

Government Pressure on Safety Regulation

- 2011-12, UK government borrowing
 - Fell by £10 billion; stringent cuts in spending.
- Lord Young Common Sense, Common Safety
 - tort reform and reshaping UK regulation;
 - "compensation culture driven by litigation ...
 beset health and safety today".
 - Risk based regulation exempt 'low hazard businesses'.



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Health and safety inspections cut in regulation curb



Health and safety inspections will still apply to areas deemed to be of high risk, such as construction sites

Plans to exempt thousands of businesses from health and safety inspections have been announced by ministers.

Under new rules to be introduced in April 2013, checks will no longer be routinely carried out on premises considered to be low risk, like shops.

Ministers say the checks can place an unnecessary burden on some businesses, but some trade unions say it risks the safety of employees and customers

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Crisis of Regulation During a Recession

- Fall in HSE prosecutions
 - resulting in at least one conviction;
 - 517 (2006-7) to 484 (2010-11).
- HSE argued this is improved safety.
- But many other hypotheses:
 - Fewer successful prosecutions;
 - Less people for prosecution;
 - Side effect of fall in economic activity?

Not Just the UK and Europe

- 2007-8 Canadian government
 - Alter of free-market and regulatory safety;
 - Reduce Federal food safety inspectors
 - companies how to meet hygiene standards.
 - 22 people died in listeriosis outbreak, Ontario.
- Recession triggers new review:
 - government ask \$56 million of savings;
 - From Canadian Food Inspection Agency;
 - 100 posts into question over the next 3 years.
- Iterative process in safety regulation...?

Other Concerns for Regulation in Recession

- Symptoms of the crisis:
 - Cynicism, illness, lack of training;
 - poor pay, career development and staff retention;
 - Junior and elderly staff left in key positions.
- Multi-modal regulators out of their depth;
 - "can you explain caching please?"...
- Lack of leadership across European safety:
 - New tools: how do we use risk to target resources?
 - New threats: cyber-security and safety;
 - New systems: Global Navigation Satellite Systems...

So What Do We Do?

- Financial constraints remain, so we need to:
 - carefully monitor mishap rate and risk exposure;
 - Consistent approach (enforcement vs education?).
- Some agencies are great but we need:
 - Competent, well motivated safety regulators.
- Need to:
 - Recruit regulators for the next decade not the last;
 - Software engineers, human factors, management;
 - Need new approach to regulation in recession.



Summary: Crisis in Safety Regulation



- 3 flawed forms of safety governance:
 - Market forces: 3rd party effects;
 - Tort and insurance: inefficient and retrospective;
 - State regulation: risk based but bureaucratic.
- 2006 recession cut regulatory budgets, 30%+
- Impact on safety?
 - Fewer inspections and enforcement actions;
 - Less competent/motivated regulators;
 - Fall in accidents less than fall in economic activity.

Any Questions?

Paper on: http://www.dcs.gla.ac.uk/~johnson