Practical development of HSE's Buy Quiet initiative

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Encourage pincer approach

**Purchasers** demand quality Noise & Vibration information (before paying)

**HSE** Work with suppliers & Encourage good EU standards development
Building on success... Low vibration tools
Buy Quiet Launch

- 2\textsuperscript{nd} March 2010 at a football stadium in Coventry
- Well attended with a good spectrum of industry and other stakeholders
- Industry and noise control case studies
- Good feedback
Delegates believed...

We held a series of workshop sessions to answer a set of questions.

Some of the responses took us by surprise...
Workshop Questions

1. Who wants quiet machinery?
2. Why are machines still noisy?
3. What use is manufacturers noise information
4. Who will pay for quiet machines?
5. What would help sell quieter machines?
6. Who needs to co-operate with whom to achieve widest use of quieter machinery?
7. Are companies within EU States looking for low noise equipment?
8. Does every customer need to be an acoustician?
9. What is the cost of protecting workers from noisy machines?
10. What causes deafness?
11. What training would be most helpful on noise and deafness?
12. Are messages on noise clear?
13. What features would you expect in new, low noise machinery?
Workshop findings

- noise is not seen as an important occupational health risk in the minds of those who produce workplace equipment or of those who manage the use of that equipment
The reality

- 1:6 people in the UK have some level of hearing loss (equivalent to 10 million people) Action on Hearing Loss

- Exposure to excessive noise is classified by WHO as the major avoidable cause of permanent hearing impairment worldwide

- In 2009/10 an estimated 21,000 individuals who worked in the last 12 months were suffering hearing problems which they believed to be work-related, according to the UK Labour Force Survey
Why are Machines still noisy?

What to do?

- Noise not recognised as health problem
- Effect of noise outside work
- No Commercial pressure
- Previous Poor experiences
- Engineering improvements intended to reduce noise used to increase production speed
What use is manufacturers’ noise information?

- If this was important, they’d tell me on the advert.
- I don’t get this in my workplace.
- I’m using it for something different.
- The regulator doesn’t care, so why should I?
- What does this mean?
- Is this the best way to communicate noise risk?
- What am I supposed to do with it?
- How do I compare between products?
- Information provided to comply with EU legislation & not for me.
- I’m buying two, so will it be 184 dB?
What would help sell quieter machines?

- If low noise reduces costs
- If low noise is required by insurers.
- If authorities enforce on low noise.
- If manufacturers can make money from lower noise.
- If Market Surveillance makes low noise machines available.
- If local restrictions on noise emissions are in force in a similar way to the regulations applying to outdoor equipment.
- If genuinely quieter machines can be distinguished from the others
  – which requires the supply of reliable noise emission information.
- Because morale/productivity improves with low noise
- If noise of machinery is regulated and not the noise exposure of operators
Does every customer need to be an acoustician?

- Competent help must be at hand
- Information and advice from manufacturers needs to be readily understood
- Noise tests appear too complicated and unrelated to workplaces
- Users seek information that describes the risks they are required to manage, i.e. noise exposure information

No, but...
- Manufacturers face customer scepticism about relevance of information to normal factory use.
What is the cost of protecting workers from noisy machines?

Employers feel that they are on their own and cover all business costs from managing noise including:
- Where noise controls have reduced productivity and increased production costs
- Interpretation and understanding of guidance, development of controls, testing, etc.
- Cost of information, instruction and training for employees
- Costs of PPE
- Cost of health surveillance
- Cost of taking action against manufacturers where their data is misleading

Nobody mentioned the cost to machinery manufacturers

No-one felt confident to make a realistic estimate of actual costs
What features would you expect in new, low noise machinery?

- Enclosures were most frequently cited.
- There was some recognition that engineering solutions are possible:
  - Use of alternative materials that transmit noise less readily.
  - Design from scratch should give major gains
- Noise controls should complement control of other risks, such as access, maintenance or cleaning.
Delegates at the launch of ‘Buy Quiet’ reached consensus that changes can and should be made to equip factories with quieter machinery.

...How?
BQ development

- Build on international links
- HSE website development
- Target activities for maximum impact
  - initially target noisy components with reasonably practicable low noise controls
Buy Quiet

The Buy Quiet campaign was launched to help manufacturers, importers, suppliers and users of equipment to work together to reduce the risk of noise-induced hearing loss in the workplace.

- Key messages
- Background
- Regulation
- Enforcement

More about the Buy Quiet campaign

Providing and using noise information
What you need to know as a:
- Manufacturer
- Importer or supplier
- Purchaser
- User

More on providing information

Regulation
Exposure to loud noise is a risk to health. Where exposure to loud noise at work is unavoidable, employers should minimise risk by managing exposure including selecting suitable work equipment.

More on regulation

Join the Buy Quiet partnership
Since the Buy Quiet campaign launch in March 2010 national and international activity is increasing.
- Read our case studies
- Share your experiences

More about the partnership
Success looks like this...

EG5500

Compact & Efficient layout
- New generation alternator

Honda exclusive design
- New control panels
- Solid and durable image

Easier operation
- thanks to larger control panel

Large fuel Tank enables 8 hour continuous operation

Noise reduction (-1dB) by utilisation of silent air-cleaner and muffler

JLH GX Engine Cost
- Competitive

Noise reduction (-1dB) by utilisation of silent air-cleaner and muffler
How

- The “Buy Quiet” message will be promoted to large purchasers of tools and machinery in a range of target sectors via a sustained range of education and promotion activities.

- The project will need to run for the next five to ten years in order to achieve a sustained change in purchasing behaviour and to see this impact on the design and packaging of new tools and machinery.
19th century acoustic conditions

... it doesn’t have to be like this!
Reasons not to BQ

- it’s too difficult...
- too hard...
- too expensive...

.... we need to change perceptions
Questions?

Thank you for listening

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