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**From:** Hunneyball, Stuart [Stuart.Hunneyball@mesg.co.uk]  
**Sent:** Wednesday, February 08, 2006 5:05 AM  
**To:** zzMSHA-Standards - Comments to Fed Reg Group  
**Subject:** RIN 1219-AB44

Dear Sir

One aspect that you may wish to consider in your deliberations on improvements to equipment associated with mines rescue is emergency gas analysis. Our experience here is that the most useful emergency gas analysis equipment is that which is used on a routine basis as the equipment is already on site, properly maintained and already delivering regular analytical data to the mine. It can be supplemented by other equipment as required. One piece of kit that is used is the Tube Bundle System, a very brief description of which is given below (extracted from my paper Hunneyball SR: 2000: 'The Science of Spontaneous Combustion': International Mining and Minerals, pages 205-210)

"The tube bundle system is an established piece of equipment for routine gas analysis and is invaluable in the detection and monitoring of heatings. It does not rely on underground power and provides computer controlled laboratory quality analysis. A particular attribute of the system is its capability to monitor behind stoppings and also from the waste. Samples can also be obtained from the tubing at the surface for specialist analysis. The system can be linked to MDA and some systems have MDA incorporated into their software.

The key to obtaining reliable data from a tube bundle system is the regular checking of the integrity of the underground tubing."

For information MDA is a computer based alarm program.

I hope that you find the above comment helpful and would be happy to expand on my views and provide further information if you considered it worthwhile. My views are based on providing over twenty five years experience of providing emergency and routine gas analysis and consultancy services to British coal mines, their owners and the Mines Rescue Service.

Yours faithfully

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