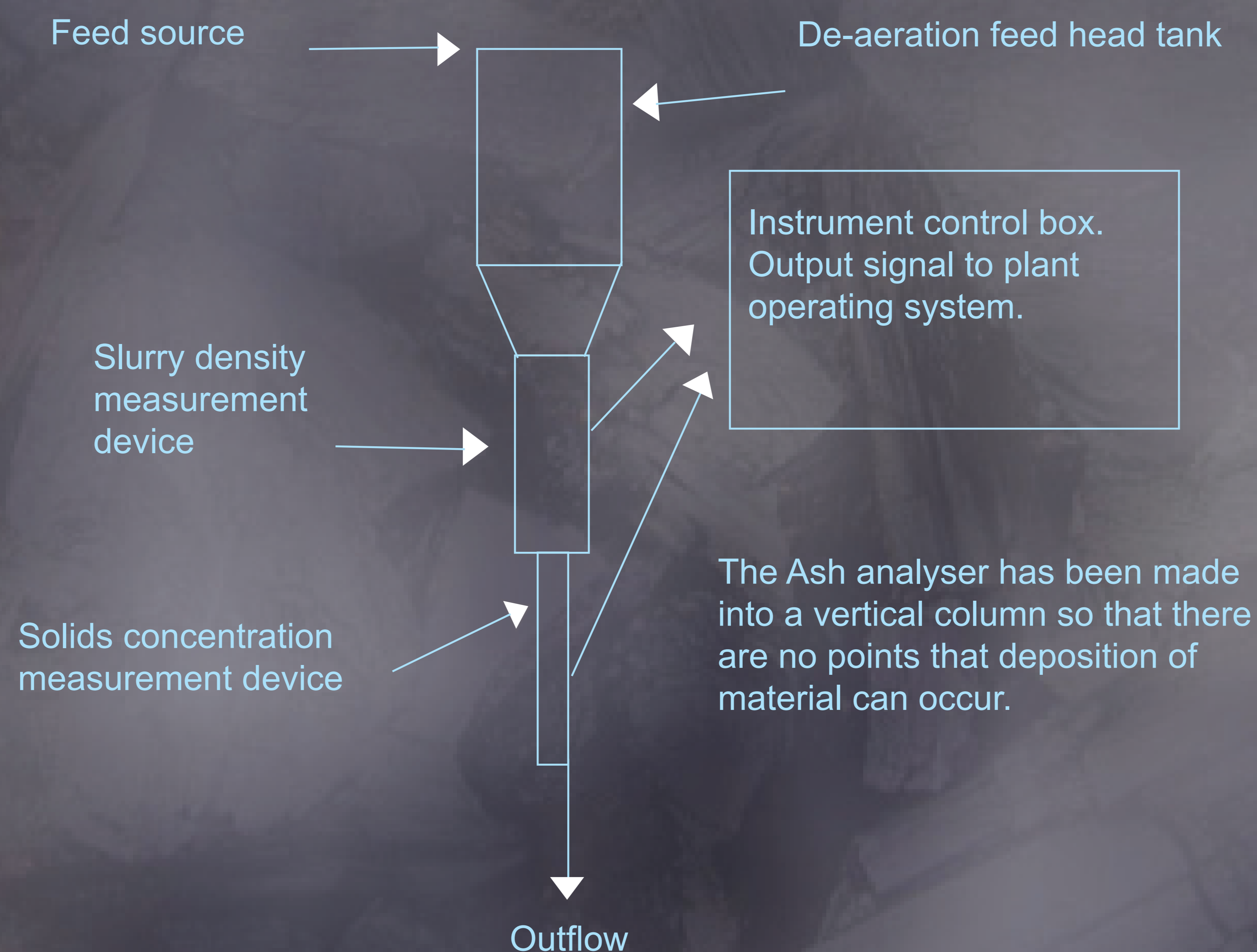
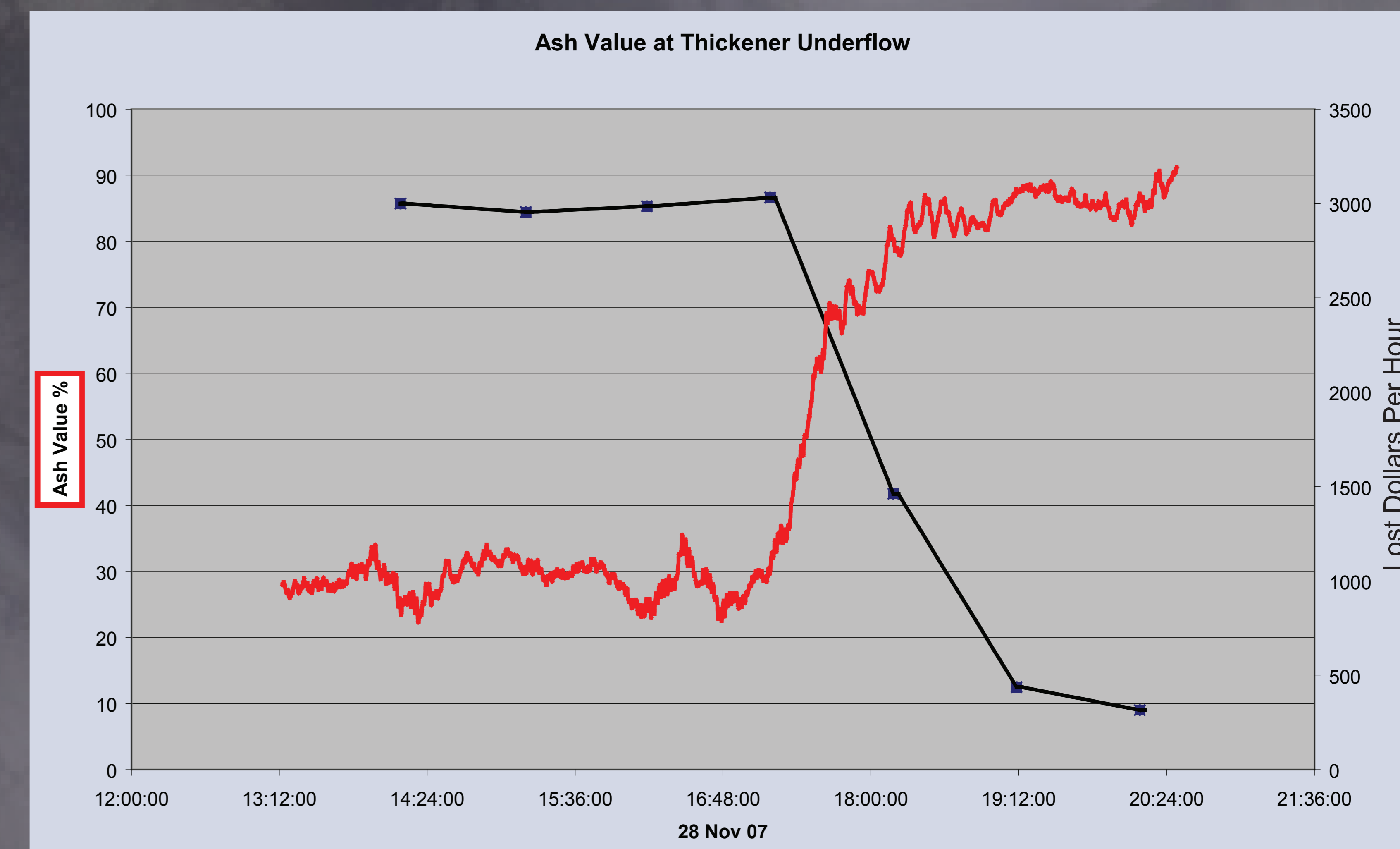


On-line Coal Slurry Ash Analyser

Research by The University of Newcastle's research associates (TUNRA) LTD Clean Coal division has led to the development of an online slurry ash analyser. The device will allow real time monitoring and quality control within a coal fines processing plant.

TUNRA Clean Coal has developed a mathematical equation that allows the particle density within a slurry to be determined. The mathematical equation developed uses data from a slurry density device and also a solids concentration device. In the development of the device a paper was published and presented at the 11th Australian Coal preparation conference 2007 (Lambert, N. 2007, "Development of an online slurry ash analyser", in Holtham, P.N. (ed.), Proceedings of the eleventh Australian Coal Preparation Conference, Paper D3.). The particle density is then able to be related to the ash value of the particle. This then allows an operator to monitor changes in the ash value within a coal slurry, in real time. This will optimise performance and wastage while reducing down time.



The Benefits

The benefits of the technology are:

- Compact and easily installed.
- Customised to existing plants communications network, i.e. 4-20mA, Ethernet, etc
- Easily read and understood displays 24 Vdc operation, no hazardous voltages used.
- Minimal maintenance and calibration required.
- Full backup and support offered.
- Can be installed on any type of slurry feed within a plant, i.e. tails, product, etc

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