

**From:** Newton, Nicola [mailto:nnnewt@eastman.com]

**Sent:** 30 June 2015 16:29

**To:** Leahey, Antony; Kemp, Andi

**Subject:** TH3 commissioning

Tony, Further to our discussion earlier I have confirmed with Keith Agnew the fugitive emission monitoring 'sniffer' will be as follows:

An Ultra-Rae 3000 Benzene monitor. It is widely available from a number of sources and can also be used as a VOC monitor for screening.

Range for Benzene 50ppb – 200ppm

It also includes a 15 min STEL calculation so useful for other purposes aside from fugitive losses.

The methodology will be the same as that used for the routine TH2 last year and is described below:

The screening method uses a portable detector calibrated directly for Benzene. This method can measure down to 0.1 ppm.

The following procedures were used to screen the different types of sample point:

**Pumps / Compressors**

- Must be running.
- 2 cm away from rotating seal or as near as possible to guard.

**Control Valves**

- 2 cm away from seal on top of gland packing.

**Relieving Man-ways**

- Average of 4 points directly around seal 2 cm away, when tank is not filling and is at a level considered to be typical.

Please let me know if you require further information.

Regards, Nicola

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**HSE Manager**

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