

Tekran News

Title: Mercury CEM Marks One Year of Continuous Operation

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November 29th, 2004 marks one year of continuous operation for the Tekran Series 3300 Speciating Mercury Continuous Emissions Monitor (CEM) system. This is the first successful long term commercial trial of a mercury Continuous Emissions Monitor (CEM) system at a coal fired power plant in North America.

The Tekran Series 3300 Speciating Mercury Continuous Emissions Monitor (CEM) system was installed on Unit 8 of the Ontario Power Generation Nanticoke Generating Station in late 2003. The 500 MW unit burns a blend of Powder River Basin sub-bituminous and Eastern Bituminous coals and has a cold side ESP and SCR. In addition to continuous long term monitoring, the Series 3300 monitors the effects of changing coal blends on the levels and speciation of mercury emissions.

OPG Fossil Technology Advisor Blair Seckington is quoted as saying: "OPG is constantly looking for ways to improve its environmental performance. Tekran staff and their mercury monitor have given us a powerful tool to study our mercury emission performance over the past year."

The system has been operating completely unattended, with site visits averaging every three to four weeks. The 3300 system has demonstrated a very high level of reliability and is monitored remotely using a telephone or Internet link.

The Series 3300 is unique in offering a wealth of built-in QA/QC features. It can perform automated single or multi-point calibrations as well as automated standard additions (spikes) into the sample stream. These spikes are performed at the probe tip, thereby challenging the entire system. This gives high confidence in the accuracy of the results being reported. An internal mercury calibration source eliminates the need for calibration gas cylinders and drastically reduces operating costs.

For further information visit <http://www.tekran.com/> or call 416-449-3084.

Photograph: 300 DPI, CMYK. File: http://www.tekran.com/news/Nanticoke_GS.jpg

Caption: Photo of Nanticoke Generating Station showing new SCRs on Units 7 and 8 (foreground)