## Developing a Stand-off (non-intrusive) Stack Testing Technology

Andre Fougres, INO GL 15-ARPC-04

Assessment of the existing LiDAR for the measurement of  $NO_2$ . The proposed activities are:

- Adapt simulated stack for NO<sub>2</sub> measurements (in INO's parking lot)
- Perform laboratory absorption measurements on reference cell
- Perform concentration measurements on NO<sub>2</sub>
- Perform concentration measurements of NO and NO2 simultaneously
- Analyze data Determine Limit of detection and interferences
- Report and publicize results

## **Policy Issue**

Identification and estimation of sources of emission for substances of concern.

## **Knowledge Gap**

Ambient Air Quality Objectives are routinely reviewed and revised. Future compounds of potential interest include:

- Mercury
- Ultrafine particulate matter
- Para-cresol
- Radionuclides
- PCB's

Source identification and quantification of these compounds at Upstream Oil and Gas Facilities is required.

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