CCQTA
On Line Monitoring Of Crude Oil Contaminants

Project Proposal
On line Monitoring of Crude Oil Contaminants

• Project goal:
  – To develop an on line monitoring tool for the purpose of measuring targeted contaminants in crude charged to a refinery
  – To use this equipment to quantify the impact of contaminant concentration on plant operation.
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Background

1. In most industries, process control involves monitoring feedstock quality for all variables affecting process operation.

2. In the refining industry the link between contaminants and plant/process operation is anecdotal.
   - Difficult to capture contaminant concentration/variability using a spot sampling program
Background

3. Some refiners do employ on line monitoring of fractionated feedstocks

4. On line monitoring for the purposes of process control is a growing industry
   - Ongoing improvements in the capabilities of analytical methods
   - Numerous activities/efforts with regards to the automation of samplers/analyzers in other industries
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Scope

1. Bring together interested refiners to pool resources/learnings and determine key contaminants for investigation
   - Upgrade a previous list
2. Enlist the support/participation of interested equipment manufacturers
3. Identify a refinery site to evaluate/calibrate new monitoring tool
4. Collect data from refinery site to document the effectiveness of the new tool

CCQTA
The Canadian Crude Quality Technical Association
Next Steps

Identify interested refiners
- Review project at COQG & CCQTA GM (December 3rd 2008)

1. Meet in March 2009 to establish
   - List of key contaminants
   - Need to establish a preliminary “cause & effect” relationship prior to the selection of a candidate monitoring tool

2. Review of existing equipment capabilities
   - Identify potentially interested manufacturers
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Contacts:

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