

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

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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

On line Monitoring of Crude Oil Contaminants 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

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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:

Interested parties should contact either

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