

Monthly Report

September, 1997

TOSCO Refinery at Rodeo Fenceline Monitor System

FTIR System

Operation:

The North FTIR on stream efficiency was 99.1 percent with no weather related down time. Down time resulted primarily system maintenance.

The South FTIR on stream efficiency was 93.1 percent with no weather related down time. Most of the down time was due to software related failures and maintenance.

Data:

The ambient gas QA compound results for the North Sensor show the mean Nitrous Oxide concentration was 0.24 ppm with a 0.028 ppm or 11.5 percent standard deviation, and the mean Methane concentration was 1.37 ppm with a 0.17 ppm or 12.3 percent standard deviation.

The ambient gas QA compound results for the South Sensor show the mean Nitrous Oxide concentration was 0.14 ppm with a 0.003 ppm or 2.32 percent standard deviation, and the mean Methane concentration was 1.34 ppm with a 0.13 ppm or 11.4 percent standard deviation.

Data summary reports are attached. Diethanolamine results are post-processed results. Diethanolamine was being processed but not logged.

TDLS System

OPERATION:

There were no operational difficulties. Reported downtime was due to computer system maintenance. The South TDLS units were in operation but reporting invalid data for the first four days of the month due to problems reported in the previous month.

DATA:

Data summary reports are attached.

UV System

OPERATION:

Start-up problems with the UV data system software have not been fully resolved. Excessive downtime is being logged. There are several possible reasons including occasional software failure and over-estimation of downtime based on system error codes. Sci-Tec is being given direct access to the system to aid in troubleshooting.

DATA:

Data summaries are attached.

VOC System

OPERATION:

There is still a slight baseline drift related to temperature changes. It is especially pronounced in three of the units, E3 outfall, the North monitor shelter and the Saltwater pump house. It is still being investigated.

Detector error conditions are still being reported as high concentration values. Insight Automation believes it is a software compatibility issue, and they have proposed a solution.

DATA:

Data summaries are attached.