



Monthly Report

October, 1998

TOSCO Refinery at Rodeo Fenceline Monitor System

A handwritten signature in cursive script, reading "Ted R. McKelvey".

Ted R. McKelvey

11/12/1998

Date

Monthly Report

October, 1998

TOSCO Refinery at Rodeo Fenceline Monitor System

FTIR System

Operation:

The North fenceline FTIR on-stream efficiency (OSE) was 91.4% with approximately 1% weather-related downtime. Approximately 6% downtime was due to a recurring software error ("Bomem= -305") that causes the unit to fall out of *Continuous Monitor* mode. The ETG software has been identified as the source of this error code. We have been in contact with one of the original program developers and he is investigating the cause. The automated notification system is helping minimize OSE impact until the problem can be resolved.

The South fenceline FTIR OSE was 76.5% with approximately 1% weather-related downtime. Approximately 6% of the downtime was due to a recurring software error as described above. The remaining downtime was due to a detector failure on September 19. A new cryocooler/detector assembly was installed on October 5, when a replacement unit became available.

Data:

The ambient gas QA compound results for the North Sensor show the mean Methane concentration was 1.37 ppm with a 0.35 ppm or 25.41% standard deviation. The mean Nitrous Oxide concentration was 0.243 ppm with a 0.011 ppm or 4.67 % standard deviation.

The ambient gas QA compound results for the South Sensor show the mean Methane concentration was 1.62 ppm with a 0.10 ppm or 6.28 % standard deviation. The mean Nitrous Oxide concentration was 0.244 ppm with a 0.013 ppm or 5.24 % standard deviation.

Data summary reports are attached.

UV System

OPERATION:

Based on system checks and observations in mid-September, all of the PerspectUV units are scheduled to rotate back to the factory for diagnostics, calibration and upgrade. This will begin on December 2 with the North fenceline units. Loaner units will be installed while the primary UV receivers are being factory serviced. Sci-Tec will determine the current reliability of the instruments once they return to the factory. The UV data presented here should be used with caution. We cannot vouch for the validity of the data obtained from them at this time.

DATA:

Data summary reports are attached.

TDLS System

OPERATION:

All units incurred approximately 9% downtime due to intermittent software logging errors and 1% due to weather.

The North TDLS units experienced further downtime due to intermittent "error" states within the monitor units. Loaner units were installed on October 17. The primary units were sent back to Boreal for software upgrade and annual factory calibration.

The South units functioned normally throughout the month. Their software will be upgraded as soon as the North units return from the factory.

DATA:

The data summary report is attached.

CGD System

OPERATION:

All units incurred approximately 9% downtime due to intermittent software logging errors.

All Combustible Gas Detector (CGDs) units functioned normally throughout the month with no hardware failures or hardware related downtime.

DATA:

The data summary report is attached.