

## Monthly Report

December, 1997

### TOSCO Refinery at Rodeo Fenceline Monitor System

#### FTIR System

##### Operation:

The North FTIR on stream efficiency was 60.5 percent including 17.6 hours or 2.4 percent weather related down time. Most of the down time was due to hardware failure. The Sensor unit began malfunctioning on December 17. It was determined that there were several problems, one of which could not be corrected on site. The unit was then shipped to ETG in Atlanta for repair.

The South FTIR on stream efficiency was 96.7 percent including 6.9 hours or 0.9 percent weather related down time. Some of the down time was due to difficulties early in the month that have been resolved as reported in the November report. Some of the down time resulted from the corruption of one of the ETG software files due to the difficulties with the computer hard drive. Some newly released products are being tested as replacement to provide redundant drives for these computers.

##### Data:

The ambient gas QA compound results for the North Sensor show the mean Nitrous Oxide concentration was 0.22 ppm with a 0.048 ppm or 21.9 percent standard deviation, and the mean Methane concentration was 1.41 ppm with a 0.12 ppm or 8.6 percent standard deviation.

The ambient gas QA compound results for the South Sensor show the mean Nitrous Oxide concentration was 0.25 ppm with a 0.034 ppm or 13.5 percent standard deviation, and the mean Methane concentration was 1.53 ppm with a 0.08 ppm or 5.3 percent standard deviation.

Data summary reports are attached.

## **TDLS System**

### **OPERATION:**

Reported down time was due to unusable readings and recording lapses due to system troubleshooting and maintenance. Most of the downtime was due to a previously reported instrument software problem. The new version is currently in final testing and will be installed in early February.

The H2S unit from the south side was returned for repair after damaged by some faulty test equipment. The repair was made and the test version of the new software was installed.

### **DATA:**

Data summary reports are attached.

## **UV System**

### **OPERATION:**

Problems with the UV system have been alleviated but not fully resolved. Problems with PUV00001 were traced to a bad fuse. It was replaced. It is still reporting excessive slippage in one of its drive motors. Sci-Tec is troubleshooting that problem. Much of the reported downtime is weather related. We are working on a better accounting of this. Sci-Tec is scheduled to release a software upgrade in the next one to two months. It will have a number of features that should improve logging and operations.

### **DATA:**

Data summary reports are attached.

## **VOC System**

### **OPERATION:**

All units are operational. All of the sensors have been reset to a 0-100 percent range. This seems to have eliminated most of the drift problems.

The downtime logged for the North Monitor Shed, E3 Outfall and the Salt Water Pump-house was due to correction of problems associated with water leaks as reported in November. The 5.66 percent downtime reported on three of the six units was due to system maintenance and troubleshooting.

### **DATA:**

Data summaries are attached.