

## Elemental Analyzer Questionnaire

Name \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_ City, State, Zip \_\_\_\_\_

Phone \_\_\_\_\_ FAX \_\_\_\_\_

E-mail \_\_\_\_\_

### DETECTORS:

Nitrogen  Sulfur  Nitrogen/Sulfur  H<sub>2</sub>S

ELEMENT 1: \_\_\_\_\_ Normal Detection Range Required: \_\_\_\_\_

LOW RANGE: Min. \_\_\_\_\_ Max. \_\_\_\_\_ HIGH RANGE: Min. \_\_\_\_\_ Max. \_\_\_\_\_

ELEMENT 2: \_\_\_\_\_ Normal Detection Range Required: \_\_\_\_\_

LOW RANGE: Min. \_\_\_\_\_ Max. \_\_\_\_\_ HIGH RANGE: Min. \_\_\_\_\_ Max. \_\_\_\_\_

### LOCATION OF ANALYZER(S):

Control Room  Analyzer Shelter  Production  Outside

Other (Specify) \_\_\_\_\_

### ENVIRONMENT:

Temperature Range: Minimum: \_\_\_\_\_ Maximum: \_\_\_\_\_

Humidity Range: Minimum: \_\_\_\_\_ Maximum: \_\_\_\_\_

Certification Requirements:  NEC  IEC  CENELEC  CSA

AREA CLASSIFICATION:

**NEC/CSA** Class: \_\_\_\_\_ Division: \_\_\_\_\_ Group: \_\_\_\_\_

**IEC/CENELEC** Zone: \_\_\_\_\_ Group: \_\_\_\_\_ Temperature Rating: \_\_\_\_\_

Hydrocarbons Present:  Some of the time  All of the time

Hydrogen Present: Yes: \_\_\_\_\_ No: \_\_\_\_\_ Concentration Present: \_\_\_\_\_

### SPECIAL REQUIREMENTS:

Weatherproof Enclosure  Explosion Proof Enclosure

Additional Requirements (please be specific) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### SAMPLE CONDITIONS:

Number of Streams: \_\_\_\_\_

**STREAM 1:** Type: \_\_\_\_\_ Analyze as:  LIQUID or  GAS

Temperature: \_\_\_\_\_ pH: \_\_\_\_\_ Pressure: \_\_\_\_\_ Flow Rate: \_\_\_\_\_ Viscosity: \_\_\_\_\_

Particulate Matter: \_\_\_\_\_

Can particulate be filtered to 0.5 microns without affecting analysis? Yes : \_\_\_\_\_ No: \_\_\_\_\_

Analyzer Distance from Sample Point: \_\_\_\_\_ Sampling Frequency Required: \_\_\_\_\_

**STREAM 2:** Type: \_\_\_\_\_ Analyze as:  LIQUID or  GAS

Temperature: \_\_\_\_\_ pH: \_\_\_\_\_ Pressure: \_\_\_\_\_ Flow Rate: \_\_\_\_\_ Viscosity: \_\_\_\_\_

Particulate Matter: \_\_\_\_\_

Can particulate be filtered to 0.5 microns without affecting analysis? Yes: \_\_\_\_\_ No: \_\_\_\_\_

Analyzer Distance from Sample Point: \_\_\_\_\_ Sampling Frequency Required: \_\_\_\_\_

**SAMPLE CONDITIONING:**

Does a Sample Conditioning System exist for this application? Yes: \_\_\_\_\_ No: \_\_\_\_\_

If a Sample Conditioning System exists, please indicate the number of valves that must be controlled by the analyzer: \_\_\_\_\_

Are these pneumatically operated valves? Yes: \_\_\_\_\_ No: \_\_\_\_\_

**DATA OUTPUT AND SIGNALS:**

4-20mA (standard)     Local Display (standard)

0-10 V (optional)     RS-232 (optional)

ALARMS:

General Fault     Purge Pressure Loss

OTHER SIGNALS:

Data Valid     In CAL     In VAL     Stream Identification     Come/Read

**REMOTE/LOCAL CONTROL:**

Do you wish to control the analyzer for a remote location such as the Distributive Control System (DCS)? Yes: \_\_\_\_\_ No: \_\_\_\_\_

The following information may not be absolutely necessary for most applications; however, if the sample stream contains water, this must be indicated.

**STREAM COMPOSITIONS:**

STREAM 1 COMPONENT	CONCENTRATION	MIN	MAX
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
STREAM 2 COMPONENT	CONCENTRATION	MIN	MAX
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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