CUSTOMER APPLICATION SURVEY 2007

If submitting this form electronically, please rename the file using the specific project name.

The Customer Application Survey is critical for determining scope of supply for your application.

Please complete all questions.

Customer Contact Information

Date: **Quote Number:**

Your Name: **Your Company:**

Project Name:

End User Name: **Title:**

End User Company: **Dept.:**

Address: **City:**

State: **Zip:** **Country:**

Phone: ( ) **FAX: ( )**

Email:

Site Information (where instrument is to be installed):

Plant Name:

Plant Address:

City: **State:**

Postal Code: **Country:**

Phone: ( ) **FAX: ( )**

Contact at Site:

TURNER DESIGNS
Hydrocarbon Instruments
2023 N. Gateway Blvd., Suite 101, Fresno, California 93727
Ph: (559) 253-1414 / Fax: (559) 253-1090
www.oilinwatermonitors.com

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1. Instrument Requested:

- ☐ Continuous On-Line Monitor
- ☐ *Handheld or Bench Top Analyzer

***Note: If Handheld or Bench Top Analyzer is selected please complete questions 2-12 & 28-33 only.**

2. Please identify the business of the end-user:

- ☐ FPSO or FSO
- ☐ Ship
- ☐ Drilling Rig
- ☐ Fixed Platform Oil/Gas Production
- ☐ Onshore Oil/Gas Production
- ☐ Refinery
- ☐ Petrochemical Plant
- ☐ Industrial Wastewater Treatment
- ☐ Industrial Manufacturing Plant
- ☐ Power Plant
  - ☐ Hydro Electric
  - ☐ Fuel Oil
  - ☐ Natural Gas
  - ☐ Nuclear
- ☐ Pulp or Paper Plant
- ☐ Steel/Aluminum Plant or Mill
- ☐ Drinking Water Plant
- ☐ Mining Operation

Other:

3. Please specify the site details for monitoring:

- ☐ Oil Field Produced Water for Discharge
- ☐ Oil Field Produced Water for Reinjection
- ☐ Bilge Water Discharge
- ☐ Slop Tank Discharge
- ☐ Deck Drains Discharge
- ☐ Water Plant Intake Protection
- ☐ Industrial Wastewater Discharge
- ☐ Plant Process Water
- ☐ Heat Exchange Leak Detection
- ☐ Storm Water Discharge

Other:

4. Purpose for Monitoring:

- ☐ Leak Detection
- ☐ Process Protection
- ☐ Treatment Verification
- ☐ Discharge Compliance
- ☐ Process Control
- ☐ Spill Response
- ☐ Soil Remediation

Other:

5. Specify the primary <u>SOURCE</u> of the water to be monitored:

- ☐ Oil/Gas Produced Water
- ☐ Bilge / Ballast Water
- ☐ Deck Drains / Slop Tanks
- ☐ River
- ☐ Lake
- ☐ Sea Water
- ☐ Ground Water
- ☐ Drinking / Tap Water
- ☐ Storm Water Runoff
- ☐ Steam Condensate
- ☐ Purified Water

Other:

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6. Specify the Target Oil, Compound or Compound Type:

- ☐ Benzene
- ☐ Toluene
- ☐ Ethyl Benzene
- ☐ Xylenes
- ☐ BTEX
- ☐ Phenol
- ☐ Aniline
- ☐ Gasoline
- ☐ Transformer Oil
- ☐ Heat Transfer Fluid
- ☐ Diesel / Marine Diesel
- ☐ Jet Fuel
- ☐ Lubricating Oil
- ☐ Hydraulic Oil
- ☐ Fuel Oil #
- ☐ Crude Oil

Other by chemical name:

Specify product name:

7. If for CRUDE OIL or GAS CONDENSATE

specify the ° API gravity?

8. Physical state of hydrocarbons in the water:

- ☐ Fully dissolved
- ☐ Dispersed droplets
- ☐ Emulsified
- ☐ Free, undissolved, floating

9. Expected concentration range:

- ☐ **PPM**
- ☐ **PPB**

10. Water clarity:

- ☐ Clear
- ☐ Cloudy
- ☐ Suspended solids: mg/l
- ☐ Turbidity measurement: NTU
- ☐ Dissolved Gas

Concentration: m3/kg

- ☐ Other:

11. pH:

Typical pH:
Typical pH range: to

12. Sample Temperature:

Typical temperature: ☐°F ☐°C

Temperature range: ☐°F ☐°C

Can you cool the sample if >140°F (60°C)?
- ☐ Yes
- ☐ No

Unknown:

13. Specify other water treatment chemicals present in the water:

Chemical Name:

Concentration:

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14. Special corrosion requirements of wetted surfaces:

15. What is flow and pressure available at the proposed site? Please specify units of measure for each value.

16. Please specify instrument drain conditions:

☐ Non-pressurized, i.e. cup sink/drain open to the atmosphere.
☐ Pressurized. Please specify pressure:

☐ PSIG ☐ BARG ☐ Value:

17. The monitor will:

☐ Be connected to a central monitoring system using the 4-20 mA output
☐ Be setup to trigger audio or visual alarm
☐ Control a device such as pump or valve
☐ Be connected to a data logger

18. Details of control requirements:

19. ALARM Relay System Requirements:

Connected alarm device (s) are:
- ☐ AC
- ☐ DC

Connected alarm device is:
- ☐ Powered
- ☐ Not Powered

Voltage required for alarm device:

Amperage required for alarm device:

20. Alarms Setting:

High Alarm Set Point:

21. Signal Out Communication Protocol:

☐ 4-20mA signal only (standard)
☐ HART (optional)
☐ ModBus (optional)

Other:

Note: Hart and ModBus communication is unidirectional and can be used only for identification and monitoring.

22. The monitor will be located:

☐ Indoors
☐ Outdoors
☐ Shelter Required

23. Ambient Conditions:

Typical temperature: ☐°F ☐°C

Temperature range: ☐°F ☐°C

Typical Humidity:

Humidity Range:

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24. Hazardous Area Requirements:

☐ North American Standards:
Class
Division
Groups

☐ European ATEX Standards:
Zone
Class
Group

IP Rating:

List any other certifications or special testing requirements:

25. Regulatory Approvals:

☐ IMO 107(49)
☐ IMO 60(33)
☐ CSA

Other:

26. Air Supply:

☐ Instrument quality, dry, oil free air?
☐ Standard compressed air?
☐ No air available?

27. Power available at the site:

VAC

Cycle

Phase

VDC

28. Instrument Reporting Requirement:

☐ Qualitative (Upset Monitor)

☐ Quantitative (requires calibration with specific hydrocarbon).

Other:

29. Do you have laboratory equipment for preparing hydrocarbon standards?

☐ Yes
☐ No

☐ Unknown:

30. The water to be monitored by this unit is:

☐ Not currently monitored
☐ Monitored by sending samples to a lab

31. Is the Turner Designs instrument replacing another type of instrument?

☐ **Yes**
☐ **No**

If yes, please specify brand:

Please specify part number:

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32. What Analytical <u>Equipment and/or Methods</u> for Oil in Water measurement are available at the site?

33. Describe the most critical performance requirements.

<u>!!! VERY IMPORTANT !!!</u>

Please provide a Process Diagram or Sketch of water treatment process. Either insert an electronic image in the space below or include a .pdf when submitting this form.

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