Neutronics, Inc.
EXPERTS IN OXYGEN ANALYSIS AND CONTROL

Your Local Area Ntron Sales Rep is:
_____
_____
_____

NTRON

Process Oxygen Application Worksheet ——————————————— Page 1 of 3

Contact/Project Information
Name of Person Completing this Form:

Name/ Title:		**Alternate Contact [1]:**	
Phone:		**Alternate Phone:**	
E-mail:		**Alternate E-mail:**	
Company:		**Company Division:**	
Address:			
City:		**State:**	**Zip:**
Project ID:			
Project Location:			

Application Description: _____

_____

_____

Vessel ID: _____

Process Information **Note:** Please fill out this section as completely as possible to allow us to specify the proper Sample Conditioning System for your application. Neutronics respects the confidentiality of all information provided to us on this worksheet. Please check all information that applies and if possible, attach a sketch of your process showing likely sample and inerting locations.

General

Vessel Location	❏ Indoors, Heated	❏ Indoors, Unheated	❏ Outdoors
Type of Process	❏ Continuous	❏ Batch	
Current Method of Inerting [2]	❏ Continuous Flow Purge	❏ Pressure (Blanketing)	❏ None
O_2 Currently Maintained	❏ Measured_____%	❏ Estimated_____%	❏ Unknown

Process Data

Process Data	Minimum	Normal	Maximum
Process Pressure (Specify Units) [3] ☐ PSIG ☐ In. H_2O ☐ In. Hg			
Process Temperature (°F / °C)			
Ambient Temperature (°F / °C)			

Process Composition (If more than 5, list additional components on reverse side)

Process Component(s) Solvent, Solid, or Particulate	Component Phase / State	Concentration (PPM/% by vol.)	Amount (% by Volume)
	☐ Gas/Vapor ☐ Liquid ☐ Solid		
	☐ Gas/Vapor ☐ Liquid ☐ Solid		
	☐ Gas/Vapor ☐ Liquid ☐ Solid		
	☐ Gas/Vapor ☐ Liquid ☐ Solid		
	☐ Gas/Vapor ☐ Liquid ☐ Solid		

(*SEE REVERSE SIDE of P.2 FOR QUESTIONNAIRE FOOTNOTES)

Rev. 1 07/08

Area Electrical Ratings Information

Electrical Rating at Vessel Site		Electrical Rating Where Analyzer will be Mounted	
Class	☐ I ☐ II ☐ III	*Class*	☐ I ☐ II ☐ III
Division	☐ 1 ☐ 2	*Division*	☐ 1 ☐ 2
Group	☐ B ☐ C, D ☐ E, F, G	*Group*	☐ B ☐ C, D ☐ E, F, G
	☐ Non-Hazardous		☐ Non-Hazardous
	☐ Not sure, Please call me to Discuss		☐ Not sure, Please call me to Discuss

Compatible Materials	*Available Utilities* **(Specify at Vessel and/or Control Room)**
☐ **Stainless Steel (Type):**	**Electric:** ☐ **110 V** ☐ **220 V** ☐ **Other**
☐ **Teflon**	**Compressed Air:** _____ **PSIG**
☐ **Other (Please List Below)**	**Inert Gas:** ☐ N_2 ☐ CO_2 ☐ **Other** _____PSIG
	Cooling Water Temp. _____ (°F / °C)

Analyzer/Electronics Information:
This section allows us to specify the appropriate analyzer, enclosures, alarms, outputs, etc., for your application. Please fill out this section as completely as possible, and check all items that apply. We will provide you a sketch of our recommended system layout showing all of the Sample Conditioning and Electronic components necessary for your application.

General

Oxygen Analysis Range:	*Analyzer Signal Requirements:*
☐ **0 to 10%**	☐ **Monitor Oxygen Levels Only**
☐ **0 to 25%**	☐ **Monitor & Automatically Control Oxygen Levels (Stand-Alone)**
☐ **0 to 100%**	☐ **Monitor & Output Signal to Existing Plant Control System**
☐ **0 to 1000 PPM**	**(PLC, Control Room DCS, etc.)**
☐ **0.1 PPM to 100%**	☐ **Other (Please call me to Discuss)**
☐ **PPB to 100%**	
☐ **Not Sure (Call me to Discuss)**	

Alarm/Output Requirements

☐ 4-20 mA Output only, no relays required
☐ 4-20 mA Output with alarms listed at right
☐ Not sure, please call me to discuss

☐ Relay contacts (List Set Points Required)
Alarm #1_____% O_2
Alarm #2_____% O_2
Alarm #3_____% O_2
Alarm #4_____% O_2

Analyzer Enclosure Requirements Check only what applies to your application)

If installing in a Non-Hazardous area, I prefer...   *If installing in a Class I, II or III Area, I prefer:*
☐ Flush Mount Analyzer to an Existing Panel   ☐   NEMA 7, Explosion Proof Enclosure
☐ Wall Mount Nema 4   ☐   NEMA 4, Z-Purge Cabinet
☐ Rack Mount Analyzers into a common enclosure multiple Analyzer Installations only…. 3, 6 & 15 channel systems available)

Notes to Sales Reps:

Foot Note No.	
1	It is important to get an Alternate Contact name, title, phone and e-mail address. After application data questionnaires are received at Neutronics, Inc. it is often necessary to follow-up for additional information before a quote can be generated. If Primary Contact is unavailable, the quote generation process can be delayed. Alternate Contact should be familiar with the project and able to answer pertinent process and performance requirements questions when the Primary Contact is unavailable. Try to obtain cell phone numbers in addition to office phone numbers, whenever possible.
2	Is the customer replacing a flow meter, blanketing valve or some other measured volume inerting method with an oxygen based sensor/analyzer method? If so, provide details in Comments area below.
3	It is VERY important to determine what pressure and temperature conditions exist AT THE SAMPLING POINT LOCATION both during sample extraction and when sampling is not taking place. Some processes do not require sampling at different stages of the process cycle, therefore it is also important to determine what extreme pressure and temperature conditions may exist at the sampling location during non-sampling periods or when an O2 reading is not required. This can help us determine if the sampling line needs to be blocked or isolated to protect the sample conditioning system components.

Comments or Other Pertinent Details:

_____
_____
_____
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_____
_____

Project Timing: Quote Required by:_____ P.O. to be Issued by:_____ Equipment Needed on Site By:_____

Quote Distribution: ☐ Send Quote Direct to Customer, cc: to Rep   ☐ Send Original Quote to Rep to Deliver

Optional Information:

Miscellaneous   *Please answer the following questions to help us serve you better. Thank You!!*

Do you currently use Ntron systems?   ☐ Yes   ☐ No
Please indicate Model No., Series, or Serial No. _____
Would you like information on our on-site maintenance services? ☐ Yes   ☐ No
Do you use other O2 Analyzers at your plant?   ☐ Yes   ☐ No
Which Manufacturer(s)? _____
What Applications? (Ambient air, Centrifuge, _____
Reactor, Vent Line, Etc.)? _____
Please list other gases monitored within your _____
processes at your facility. _____