



## PROCESS WEIGHING PROCESS WEIGHING APPLICATION WORKSHEET

**Fax or email to SENTRAN Applications Engineering Group: (909) 605-6305 or mail@sentranllc.com**

CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_ FAX: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ EMAIL: \_\_\_\_\_  
 \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

<b>Please use a separate worksheet for each vessel.</b>		<b>Vessel ID:</b> _____
<b>WEIGHING INFORMATION</b>		
1.	What is the system accuracy requirement?	_____ lbs
2.	What is the dead weight (DW) of the empty vessel?	_____ lbs
3.	What is the live load (LL) product weight?	_____ lbs
4.	What is the product to be weighed (Liquid, solid, powder or slurry)?	
5.	What is the specific gravity of the product to be weighed?	
<b>MECHANICAL CONSIDERATIONS</b>		
6.	How many vessel support points are there?	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> _____
7.	Is vessel supported on:	<input type="checkbox"/> Legs <input type="checkbox"/> Gussets <input type="checkbox"/> Suspended <input type="checkbox"/> _____
8.	Are rigid mechanical attachments flexibly coupled at all points?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>PERFORMANCE CONSIDERATIONS</b>		
9.	Where is the vessel located?	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor <input type="checkbox"/> Jacketed Vessel
10.	If outdoors, what are the wind velocity requirements?	_____ MPH
11.	What is the area's seismic zone classification?	0 1 2 3 4
12.	What is the expected load cell ambient temperature range?	Min _____°F; Max _____°F; Operating _____°F

## LOAD CELL/FORCE TRANSDUCER WORKSHEET

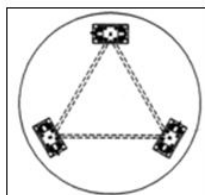
13.	Is load evenly distributed to all supports?	<input type="checkbox"/> Even <input type="checkbox"/> Uneven
14.	Is vessel agitated (e.g. mixer, shaker)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
15.	Is vessel in a washdown area?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Sanitary (CIP) <input type="checkbox"/> Corrosive
16.	Are stainless steel load cells/weigh modules required?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Hermetic Sealing
17.	What is the vessel hazardous area classification?	<input type="checkbox"/> N/A or Class_____ Div _____ Group _____
<b>INSTRUMENTATION REQUIREMENTS</b>		
18.	Type of Process Control Instrumentation (PCI) required?	<input type="checkbox"/> Blind <input type="checkbox"/> Indicating <input type="checkbox"/> Wireless
19.	Type of transmitter signal interface?	<input type="checkbox"/> Analog <input type="checkbox"/> Serial <input type="checkbox"/> Fieldbus <input type="checkbox"/> Ethernet
20.	Where is transmitter located?	<input type="checkbox"/> At Vessel <input type="checkbox"/> Control Room <input type="checkbox"/> _____
21.	Distance from load cells/weigh modules to instrumentation?	_____ Feet
22.	What is the instrumentation hazardous area classification?	<input type="checkbox"/> N/A or Class_____ Div _____ Group _____
23.	What will the PCI be connected to?	<input type="checkbox"/> PLC <input type="checkbox"/> DCS <input type="checkbox"/> PC <input type="checkbox"/> Other_____
24.	Is an analog signal required?	<input type="checkbox"/> No <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-20mA <input type="checkbox"/> 0-10VDC <input type="checkbox"/> Other_____
25.	Serial interface requirements?	<input type="checkbox"/> None <input type="checkbox"/> RS-485 <input type="checkbox"/> RS-422 <input type="checkbox"/> RS-232 <input type="checkbox"/> Other _____
26.	Communication protocol requirements?	<input type="checkbox"/> ASCII <input type="checkbox"/> Modbus RTU <input type="checkbox"/> DeviceNet <input type="checkbox"/> Profibus
27.	Is setpoint control required by the PCI?	<input type="checkbox"/> Yes <input type="checkbox"/> No
28.	Is remote indication required? (e.g. scoreboard display)	<input type="checkbox"/> Yes <input type="checkbox"/> No

## LOAD CELL/FORCE TRANSDUCER WORKSHEET

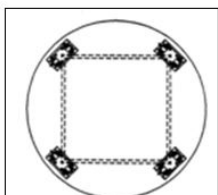
### ADDITIONAL INFORMATION

Tell us about any other aspects of your application that need to be considered. Please provide any available drawings, photographs and/or sketches that will better illustrate your application requirements. We offer solutions for virtually any situation. We would be delighted to discuss the proper solution for your application. And, if we can't satisfy your needs, we'll help you find another resource.

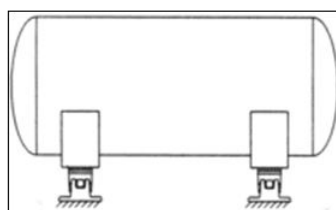
What type of vessel do you have? (Circle one)



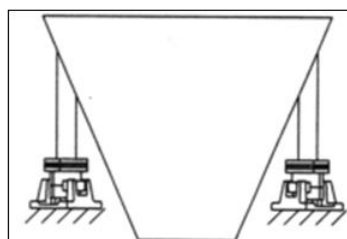
3-Point Tank



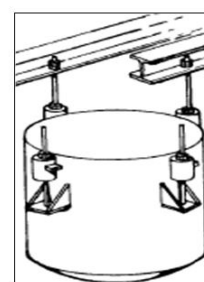
4-Point Tank



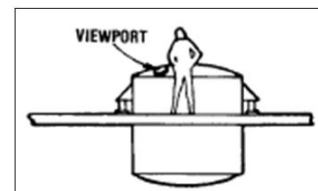
Horizontal Tank



Hopper



Suspended Tank



Mezzanine Tank

Sketch or make notes here that you think will help us better understand your needs:

