## PROCESS WEIGHING
## PROCESS WEIGHING APPLICATION WORKSHEET

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

CONTACT: _____   PHONE: _____

COMPANY: _____   FAX: _____

ADDRESS: _____   EMAIL: _____

_____   CITY: _____ STATE: _____ ZIP: _____

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| Please use a separate worksheet for each vessel. | Vessel ID: _____ |
|---|---|

**WEIGHING INFORMATION**

| | | |
|---|---|---|
| 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? | |

**MECHANICAL CONSIDERATIONS**

| | | |
|---|---|---|
| 6. | How many vessel support points are there? | ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ _____ |
| 7. | Is vessel supported on: | ☐ Legs ☐ Gussets ☐ Suspended ☐ _____ |
| 8. | Are rigid mechanical attachments flexibly coupled at all points? | ☐ Yes ☐ No |

**PERFORMANCE CONSIDERATIONS**

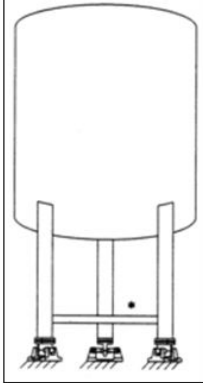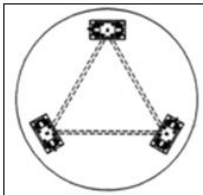| | | |
|---|---|---|
| 9. | Where is the vessel located? | ☐ Indoor ☐ Outdoor ☐ Jacketed Vessel |
| 10. | If outdoors, what are the wind velocity requirements? | _____ MPH |
| 11. | What is the area's seismic zone classification? | 0   1   2   3   4 |
| 12. | What is the expected load cell ambient temperature range? | Min _____°F;  Max _____°F;  Operating _____°F |

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| 13. | Is load evenly distributed to all supports? | ☐ Even   ☐ Uneven |
| --- | --- | --- |
| 14. | Is vessel agitated (e.g. mixer, shaker)? | ☐ Yes   ☐ No |
| 15. | Is vessel in a washdown area? | ☐ Yes   ☐ No   ☐ Sanitary (CIP)   ☐ Corrosive |
| 16. | Are stainless steel load cells/weigh modules required? | ☐ Yes   ☐ No   ☐ Hermetic Sealing |
| 17. | What is the vessel hazardous area classification? | ☐ N/A  or  Class_____  Div _____  Group _____ |

**INSTRUMENTATION REQUIREMENTS**

| 18. | Type of Process Control Instrumentation (PCI) required? | ☐ Blind   ☐ Indicating   ☐ Wireless |
| --- | --- | --- |
| 19. | Type of transmitter signal interface? | ☐ Analog   ☐ Serial   ☐ Fieldbus   ☐ Ethernet |
| 20. | Where is transmitter located? | ☐ At Vessel   ☐ Control Room   ☐ _____ |
| 21. | Distance from load cells/weigh modules to instrumentation? | _____ Feet |
| 22. | What is the instrumentation hazardous area classification? | ☐ N/A  or  Class_____  Div _____  Group _____ |
| 23. | What will the PCI be connected to? | ☐ PLC   ☐ DCS   ☐ PC   ☐ Other_____ |
| 24. | Is an analog signal required? | ☐ No   ☐ 4-20mA   ☐ 0-20mA   ☐ 0-10VDC   ☐ Other_____ |
| 25. | Serial interface requirements? | ☐ None   ☐ RS-485   ☐ RS-422   ☐ RS-232   ☐ Other _____ |
| 26. | Communication protocol requirements? | ☐ ASCII   ☐ Modbus RTU   ☐ DeviceNet   ☐ Profibus |
| 27. | Is setpoint control required by the PCI? | ☐ Yes   ☐ No |
| 28. | Is remote indication required? (e.g. scoreboard display) | ☐ Yes   ☐ No |

**SENTRAN, LLC** 4355 LOWELL STREET, ONTARIO, CA 91761, U.S.A.
**888-545-8988** T: 909-605-1544  FAX: 909-605-6305  **www.sentranllc.com**
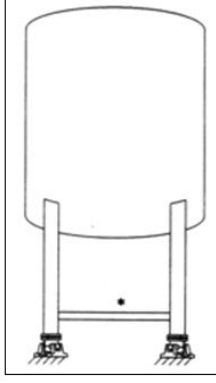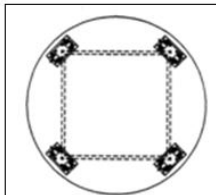
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# PROCESS WEIGHING WORKSHEET

**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.
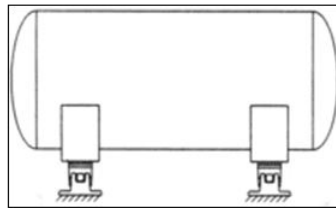
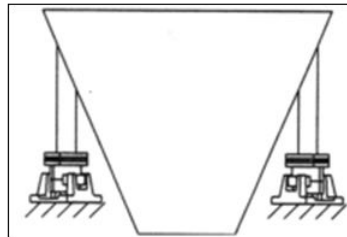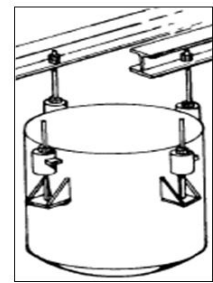What type of vessel do you have? (Circle one)
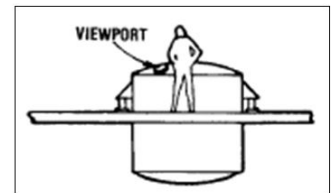
3-Point Tank

4-Point Tank

Horizontal Tank

Hopper

Suspended Tank

Mezzanine Tank

VIEWPORT

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

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