LOADING YOUR FUEL
Dipl.-Ing. SCHERZER GmbH
www.scherzer.net

Dipl.-Ing. Scherzer GmbH
Adlerstrasse 16 a
D – 45307 Essen
Phone : + 49 201 855 14 - 0
Fax : + 49 201 55 14 04
E-Mail : info@scherzer.net

QUESTIONNAIRE:

For a new built / retrofit ship loading or unloading facility

1 Customer

1.1	**Company name**	
1.2	**Address**	
1.3	**Contact person (Position, name)**	
1.4	**Phone**	
1.5	**Fax**	
1.6	**E-Mail**	
1.7	**Address (if not 1.2)**	
1.8	**Date**	

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1. **Design of the facility** according ..... (Norm)

2. **New construction of a:** **loading unit** ☐ **unloading unit** ☐

Retrofit of a: **loading unit** ☐ **unloading unit** ☐

3. **Tank ship - data:**

- Inland vessel ☐ max. _____ tys DWT
- Ocean liner ☐ max. _____ tys DWT

4. **Jetty-Data**

• Height of Jetty	± 0,000	m
• Normal water level		m
• Maximal water level		m
• Minimal water level		m

5. **Configuration of Ship loading arm**

Ship loading arm shall be equipped with:

- manual operated: ☐
- hydraulic operated: ☐
- Stipping system : ☐
- Shut down flange connection: ☐
- Safety decoupler: ☐
- integrated vapour return: ☐
- Quick closing valve: ☐

Working area of the ship loading arm:

- horizontal _____ m
- vertical _____ m

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Constant Position Monitoring system:

- yes ☐
- no ☐

Design pressure:

- PN 10 ☐ bar
- PN 16 ☐ bar
- PN 40 ☐ bar

Temperature:

- Design temperature ____ °C
- max. temperature ____ °C
- min. temperature ____ °C

Nominal diameter:

- DN 150 / 6" ☐
- DN 200 / 8" ☐
- DN 250 / 10" ☐
- DN 300 / 12" ☐
- DN 350 / 14" ☐
- DN 400 / 16" ☐

Placement of the Electric-, Hydraulic- and Operation - Systems:

- Inside Ex-area: ☐
- Outside Ex-area: ☐

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6. Product - Data:

Which products shall be loaded/unloaded?

- Gasoline A – 78 ☐
  A – 92 ☐
  A – 96 ☐
- Diesel ☐
- Heating oil (light) ☐
- Heating oil (heavy) ☐
- Mazut ☐
- JET A1 ☐
- Crude oil ☐
- Liquid gas (LPG) ☐
- Others ☐ .....

7. Loading rates / Flow-Rate:

- Inland vessel: _____ m^3/h to/h
- Ocean liner : _____ m^3/h to/h

8. Data acquisition system:

- Official calibrated ☐
- Not Official calibrated ☐
- Volume measurement V_{20} ☐ m^3
- Mass metering ☐ to
- Tank metering ☐ mm
- Full automatic ☐
- Partly automatic ☐
- Manual ☐

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9. Vapour return:

- Vapou pendulum with fixed roof tank ☐
- Vapour return to VRU ☐
- No Vapour return ☐

10. Vapour recovery system (VRU)

- VRU - Yes ☐
- VRU - No ☐
- Gas storage tank – Yes ☐
- Gas storage tank – No ☐

If VRU:

- VRU – Membrane technology ☐
- VRU – Hydrocarbon technology ☐

11. Product pumps:

Product pumps are requested?

- Yes ☐
- No ☐

Design:

- Double mechanical seal ☐
- Magnet-coupled pumps ☐
- Necessary discharge head ☐

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12. Electrical Data:

E*xisting power supply:*	690 / 660 V	☐
	400 / 380 V	☐
	230 / 220 V	☐
Planned *control voltage:*	230 V	☐
	48 V	☐
	24 V	☐

13. Engineering:

- Basic Engineering ☐
- Detail engineering ☐

Planning in detail:

Construction works:

- Jetty ☐
- Pump stand ☐
- Electrical- and control room ☐
- Foundation for vapour storage ☐
- VRU - foundation and collecting space ☐

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Steel construction:

- Pipe bridges ☐
- Technological steel construction ☐
- Roofing Pump house ☐
- Roofing VRU ☐

Piping:

- Jetty piping ☐
- Measurement line system ☐
- Pump housing ☐
- VRU ☐
- Vapour pendulum system ☐
- Connection piping ☐
- Slop - system ☐

Electric:

- Electrical room ☐
- Pump housing ☐
- Jetty ☐
- Field lighting ☐
- VRU ☐
- Vapour storage tank ☐

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Control / Data acquisition system:

- Control room ☐
- Measurement line ☐
- Tank measurement ☐
- Pumps ☐
- Jetty ☐
- VRU ☐
- Vapour storage tank ☐

14. Erection of the Ship loading/unloading facility:

Turnkey erection Yes ☐ No ☐

Erection by customer:

Supervision by contractor Yes ☐ No ☐

Commissioning by contractor Yes ☐ No ☐

Training by contractor Yes ☐ No ☐

15. Short description of the planned facility:

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