LOADING YOUR FUEL
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QUESTIONNAIRE

New built / retrofit of a railcar unloading facility for mineral oil, chemical- and petrochemical products

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 equal to 1.2)**	
1.8	**Date**	

2. Type of project

2.1	**New construction, if yes: what type of unloading facility? ***	Conventional unloading ☐	Intake and pump out over reservoir ☐

2.2	**If retrofit, what type of facility exists? ***	Conventional unloading ☐	Intake and pump out over reservoir ☐

** Dipl.-Ing. SCHERZER GmbH will recommend a type of facility after analysis of all information*

3. What products shall be unloaded?

Product description*	**Technical data**			
	Unloading temperature (in °C)	Stock temperature (in °C)	Density (in kg/m^3)	Viscosity (in CSt)

** If possible, please attach material safety data sheets (MSDS)!*

4. Tracks

4.1	**On how many tracks will product be unloaded:**	

If possible, please attach layout plan drawing or mail to: info@scherzer.net and fill out the following details under 4.2! **If possible, please send Google Earth-orientation:(kmz) by email**	

4.2	**Space between tracks, length of tracks provided for unloading and other information related to location and tracks:**

4.2.1	Axis space of tracks (GA)	
4.2.2	Version A: Ending tracks with total length (GL1)	
4.2.3	Version B: Connected tracks with total length (GL1)	
4.2.4	Downgrade of tracks if existing	
4.2.5	Track gauge	
4.2.6	Rail profile	
4.2.7	If new construction: maximum amount of railcars in total compound	
4.2.8	Other information regarding tracks related to this project:	

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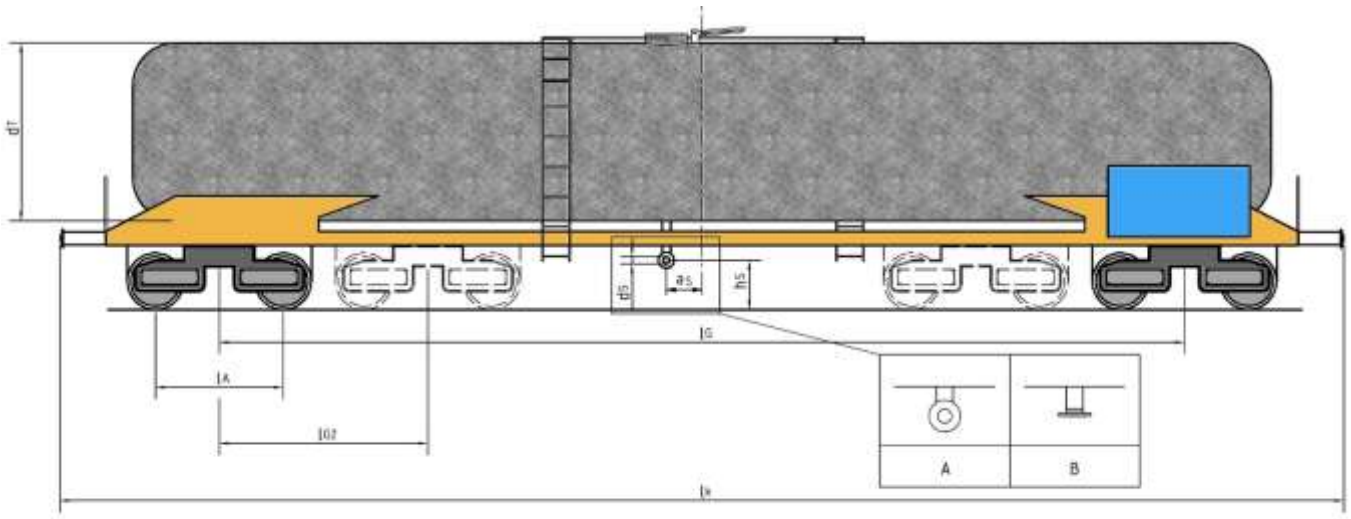
5. Railcars to be unloaded

5.1	**Average volume (for calculation of capacity) in m^3 (or gallons):**	
5.2	**Type of railcars and other information**	



Dimension of railcars							
Description	Entity	Type of railcar / description of railcar					
Axis space (LA)	mm (ft)						
Bogie space (IG2) 8-axis-railcar	mm (ft)						
Number of axis							
Bogie space (IG)	mm (ft)						
Length over all (LK)	mm (ft)						
Connection nominal diameter of unloading (dS)	mm (ft)						
Connection height (hS)	mm (ft)						
Unloading connection offset from the center (aS)	mm (ft)						
Nozzle form (A-sideways / B= down)							
Tank diameter (dT)	mm (ft)						
Empty weight	tons						
Maximal filling weight / working load	tons						
Total volume	m^3 (gal)						
Maximal filling volume	m^3 (gal)						

5.3	Bottom unloading connection and dimensions:
Sketch or picture of unloading connection	

6. Unloading conditions:

6.1	Operating period

6.1.1	8 hours/day	
6.1.2	16 hours/day	
6.1.3	24 hours/day	
6.1.4	Other operating periods	
6.1.5	Working days / year	

6.2	**Climatic conditions**

6.2.1	Temperature max, in ^{0}C or deg F	
6.2.2	Temperature min, in ^{0}C or deg F	
6.2.3	Layout temperature for planned equipment mechanic in ^{0}C or deg F	
6.2.4	Layout temperature for planned equipment EMSR in ^{0}C or deg F	
6.2.5	Layout pressure, in bar (psi)	
6.2.6	Geodetic height (NN)	
6.2.7	Maximal freeze depth in m (ft)	
6.2.8	Ground water level in m (ft)	
6.2.5	Precipitation, average in 24 hours, in mm (inches)/day	

7. Configuration of facility

7.1	**Storage system, Vapor routing system and vapor recovery unit (VRU)**

7.1.1	Storage in		
7.1.1.1	Floating roof tanks		
7.1.1.2	Fixed roof tanks		
7.1.2	Max. storage performance	..... in m³/h (gal/h)	
7.1.3	If storage in fixed roof tanks: Shall balance vapor be recovered?	Yes ☐	No ☐
7.1.4	If yes, then by	Vapor storage ☐	Vapor recovery unit (VRU) ☐
7.1.5	If Vapor recovery unit (VRU)	Hydrocarbon technology ☐	Membrane technology ☐

7.2	**Is heating of products necessary?**	**Yes** ☐		**No** ☐
7.2.1	Type of heating:	with water ☐	with electricity ☐	others ☐
7.2.1.1	Temperature and pressure in case of heating with steam	Temperature in C°		Pressure in bar

7.3	**Unloading performance**	
Product description	Daily rate, tons/day	Annual rate, tons/year

7.4	**Shall indication of unloaded products be recorded?**	**Yes** ☐	**No** ☐
7.4.1	**If yes, by:**		
7.4.1.1	Dynamic weighing scale	Yes ☐	No ☐
7.4.1.2	Volume meter	Yes ☐	No ☐
	Shall temperature compensation be used?	Yes ☐ …… (°F or °C)	No ☐
7.4.1.3	Mass metering	Yes ☐	No ☐

7.5	**Power supply**		
	Electrical data	**existing**	**planned**
7.5.1.	690/660 V		
7.5.2	400/380 V		
7.5.3	460 V-480V		
7.5.4	230 V		
7.5.5	208 V		
7.5.6	……V		
7.5.7	110 V		
7.5.8	Frequency range 50 Hz		
7.5.9	Frequency range 60 Hz		
7.5.10	Parallel flow 48 V		
7.5.11	Parallel flow 24 V		
7.5.12	Parallel flow ……		

8	**Shall a pumping station be delivered?**	**Yes** ☐	**No** ☐

Technical data of existing and new pumps:

Product-description	**existing pumps**			**new pumps**		
	Pump-capacity, in m^3/h	Static head, water column in m	Capacity, in kW or HP	Pump-capacity, in m^3/h	Static head, water column in m	Capacity, in kW or HP

9 Project time line

9.1	Dead line for offer submission	

9.2	Planned contract award date	

9.3	Anticipated start-up date	

10. Scope of delivery and performance:

	Technical equipment and services according technical tasks	Dipl.-Ing. SCHERZER GmbH	Customer
10.1	Unloading unit	☐	☐
10.2	Steel construction	☐	☐
10.3	Pumps	☐	☐
10.4	Cables and installation material	☐	☐
10.5	Piping material	☐	☐
10.6	Supervision	☐	☐
10.7	Commissioning	☐	☐
10.8	Training of operating staff	☐	☐
10.9	Basic project	☐	☐
10.10	Detail project	☐	☐
10.11	Other deliveries and performances needed	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
10.12	Turnkey construction	Yes ☐	No ☐

11. Short description of planned unloading unit or other comments:

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Thank you for filling out this questionnaire. If there are any questions, do not hesitate to contact us by Email or Phone over our representative or by direct Email: info@scherzer.net

Your information will help us to consider your specific needs in our design recommendations and subsequent system quotation.

We will treat your specific information and data as highly confidential, and we will analyze your inputs in a short time to prepare an offer according to your requirements.

Further, we recommend visiting one of the loading facilities designed by Dipl.-Ing. SCHERZER GmbH. We are pleased to provide information on the location of the closest facility to your office. We are also pleased to escort you on a detailed site visit to see firsthand the Scherzer system. For additional information, please also visit our Website at www.scherzer.net to search among various countries and a portfolio of Scherzer designed loading facilities.