

Appendix A.1

CATAMARAN SOLUTION:

(flow rate : 630 l/s)

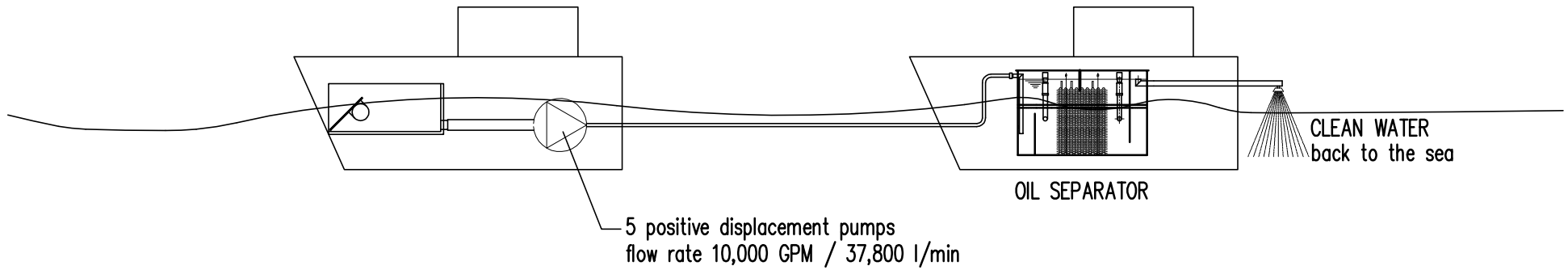
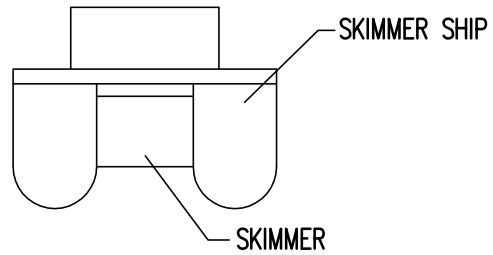
DELIVERY SCOPE of FREYLIT:

- 1) Basic design drawings for the FREYLIT skimmer, which has to be installed on a Catamaran.
- 2) Five Pit-Bull pumps, which have to be installed on the skimmer.
- 3) Dimensioning of the compressor, which is necessary for the operation of the Pit-Bull pumps.
- 4) Basic design drawings for the FREYLIT Mineral oil and Residual oil separator container.
- 5) Dimensioning of the pneumatic valves, which are required for the automatic oil discharge.
- 6) **Six automatic oil discharge units:**
each consist of:
 - **Capacitive continuous level measurement model:** Liquicap M FM151
 - **Field meter with control unit model:** RIA46-B1C1A
 - **Pneumatic solenoid valve ½", which is controlled by the electrode inside the FREYLIT Mineral oil and Residual oil separator.**
- 7) FREYLIT INSTALLATION KIT:
Model 630 EBS
flow rate 630 l/s
which has to be installed inside the FREYLIT Mineral oil and Residual oil separator container.
- 8) Engineering and commissioning of the whole project.
- 9) Operation and Maintenance manual for the FREYLIT Mineral oil and Residual oil separator.

DELIVERY SCOPE of CUSTOMER:

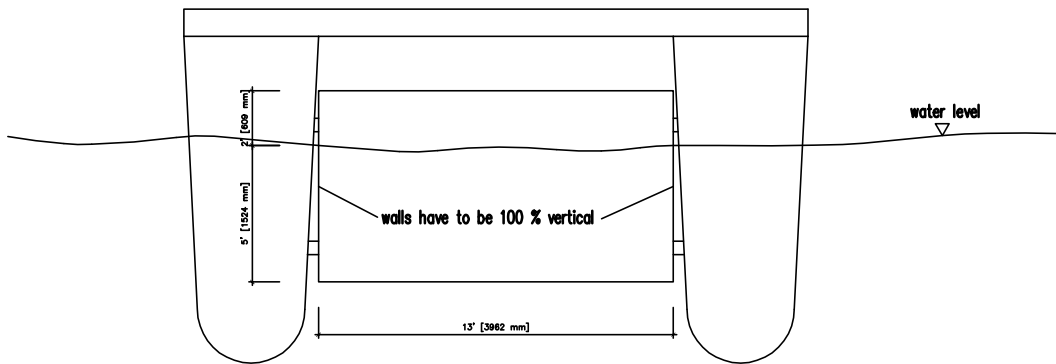
- 1) Delivery of a corresponding Catamaran, to install the FREYLIT Skimmer.
- 2) Adjustment of the FREYLIT Skimmer according to the size of the Catamaran, inclusive construction drawings for the Skimmer and the Skimmer mounting parts.
- 3) Production and assembly of the Skimmer to the Catamaran.
- 4) Installation of the five Pit-bull pumps to the skimmer.
- 5) Delivery of an air compressor with motor for driving the five Pit-Bull pumps and installation on the Catamaran.
- 6) Delivery of a tank for the air compressor and installation on the Catamaran.
- 7) Delivery and installation of five hoses, which will be connected between the pump on the Catamaran and the FREYLIT Oil separator on the barge.
- 8) Delivery of buoys, on which the hoses have to be fixed, to avoid sinking of the hoses.
- 9) Delivery of a corresponding barge, where the FREYLIT Mineral oil and Residual oil separator is built-on.
- 10) Construction drawings and static layout of the container for the FREYLIT Mineral oil and Residual oil separator, according to the design drawings of FREYLIT.
- 11) Production of the container for the complete FREYLIT Mineral oil and Residual oil separator.
- 12) Production of the slide weirs, which will be installed in the pre separator of the FREYLIT Mineral oil and Residual oil separator.
- 13) Delivery and installation of the required pneumatic ball valves for the automatic oil discharge, to release the separated oil out of the FREYLIT Mineral oil and Residual oil separator.

- 14) Installation of the container for the FREYLIT Mineral oil and Residual oil separator on the barge.
- 15) Installation of the FREYLIT Installation Kit, model 630 EBS, flow rate 630 l/sec. into the container for the FREYLIT Mineral oil and Residual oil separator.
- 16) Installation of the six **automatic oil discharge units**:
each consist of:
 - **Capacitive continuous level measurement model:** Liquicap M FM151
 - **Field meter with control unit model:** RIA46-B1C1A
 - **Pneumatic solenoid valve ½", which is controlled by the electrode inside the FREYLIT Mineral oil and Residual oil separator.**
- 17) Installation of the necessary wiring for the six **automatic oil discharge units**.
- 18) Delivery of a small compressor to operate the pneumatic valves for the automatic oil discharge.
- 19) Delivery and Installation of the pneumatic air lines between the small compressor and the pneumatic valves.
- 20) Installation of the five hoses from the skimmer on the Catamaran to the FREYLIT Mineral oil and Residual oil separator
- 21) Provision of a corresponding oil tank, which should be installed on the barge. This tank is used to collect the separated oil.
- 22) Installation of four clean water pipes from the FREYLIT Mineral oil and Residual oil separator into the sea.

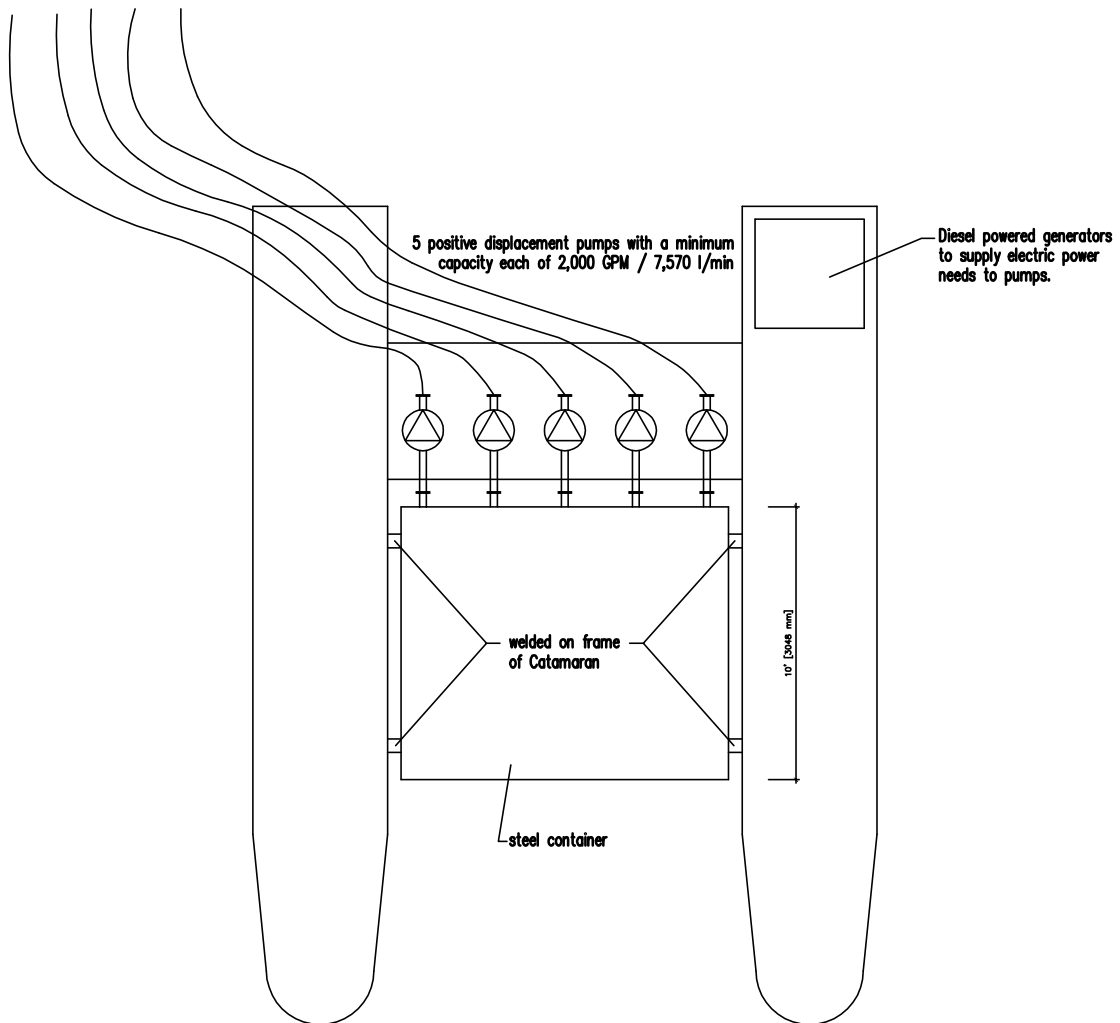


	date:	name:		
const.:	04.05.2010	Meinecke		
contr.:				
scale:	CONFIDENTIAL AND PROPRIETARY DRAWING. Ocean-faring ship for high volume, crude oil skimming separation and extraction Disaster Oil Spill Solutions.		drawing no.: oil_spill	Trademark
	modif.:	a	b	
	date:	12.05.10	24.10.11	

Catamaran Boat



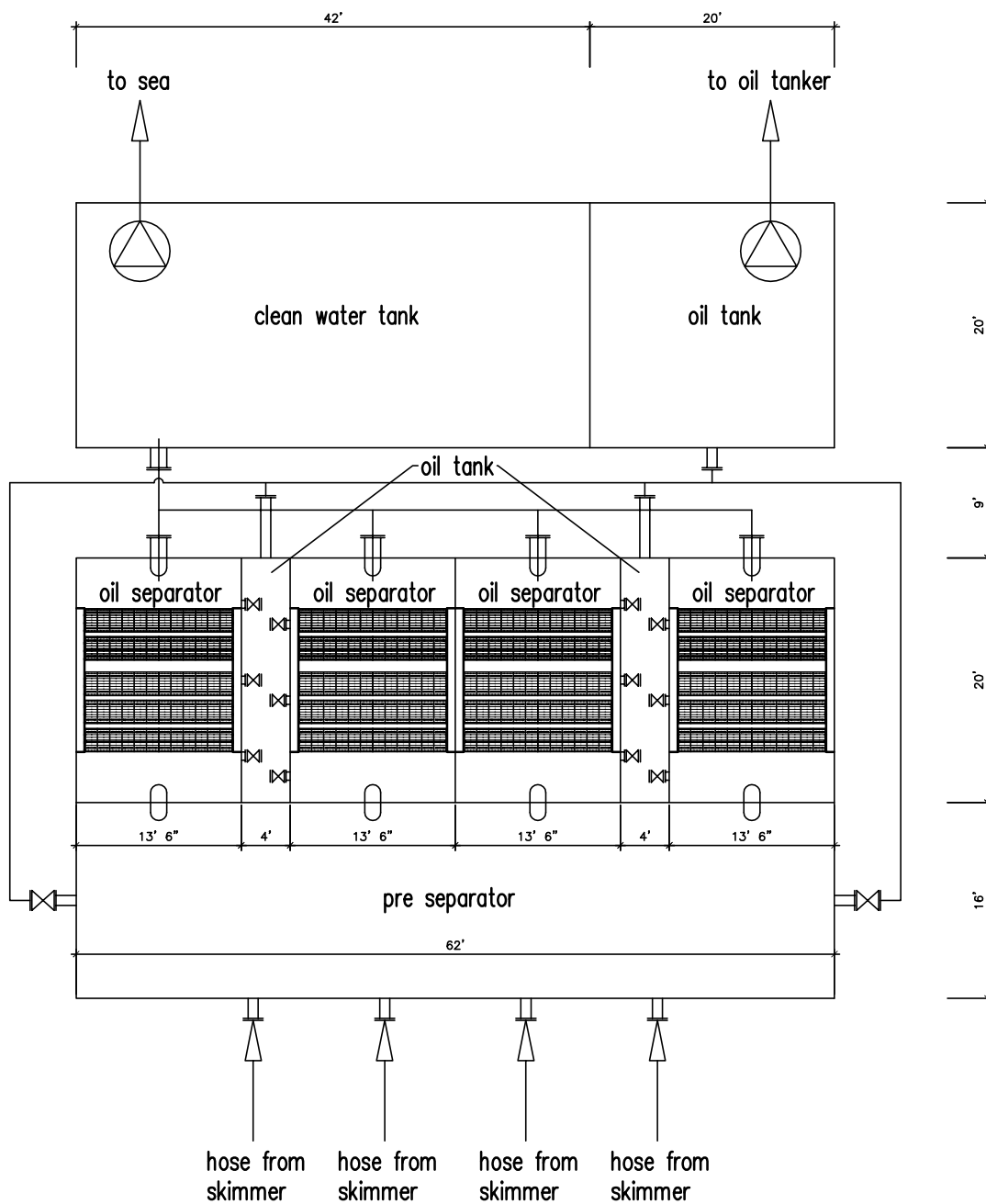
five hoses connected to the ship where the oil water separators are operating



Crude Oil Water separator to separate 14,400,000 Gallons (54,504,000 liters) of oily water mixture per day.
 With this separation, 15 % of the oil can be separated and recovered. 2,160,200 Gallons (8,175,600 liters) of oil can be recovered per day.
 An oil layer of up to 1 foot (305 mm) deep below the water level can be skimmed.



measurements in feet [mm]!

date:	name:		AUSTRIA <small>Trademark</small>					
const.:	24.10.2011					Meinecke		
contr.:								
scale:	CONFIDENTIAL AND PROPIETARY DRAWING. Ocean-faring ship for high volume, crude oil skimming separation and extraction Disaster Oil Spill Solutions.				drawing no.:	Skimmer ship		
					modif.:			
					date:			



Crude Oil separator to separate 16,128,000 Gallons of oily water mixture per day.
 With this separation 15 % of oil can be separated and recovered. 2,419,200 Gallons of oil can be recovered per day.
 An oil layer up to 1 foot deep below the water level can be skimmed.

measurement in feet!

	date:	name:		<h1>AUSTRIA</h1>
const.:	11.05.2010	Meinecke		
contr.:				
scale:	 CONFIDENTIAL AND PROPRIETARY DRAWINGS. Ocean-faring ships for high volume, crude oil skimming and separation – Disaster Oil Spill Solutions			drawing no.: <h2>Oil Spill USA</h2>
	modif.:	a		
	date:	12.05.10		