



PRELIMINARY DESIGN DATA FORM Marine Terminals

Please complete this form (as appropriate for your Project) and then mail or fax it to:

SOFEC Sales Dept.
14741 Yorktown Plaza Dr.
Houston TX 77040 USA
Ph. (281) 529 8100 Fax. (713) 510 6601

General Information:	
Date	
Company name and type of business	
Address	
City, state / province, country, postal code	
Telephone number: country no. / city no./ phone no. (s)	
Fax number: country no. / city no. / phone no. (s)	
Contact name, title, address (if different from above), direct phone, direct fax, e-mail	
Project Particulars:	
Country	
Project / terminal / field name	
Type of products: crude oil, refined products, chemical, fuel, etc	
Operator and partner names	
Marine terminal delivery location	
Marine terminal installation location, site coordinates	
Scope of Work -- Are you inquiring about: 1. A CALM – type monobuoy, or 2. A SALM - type monobuoy, or 3. Another type of import / export terminal (describe)?	
Brief description of overall project and anticipated FMC SOFEC scope of supply:	

Contract award date			
Start up date			
Service life / design life / field life			
Fluid Properties:	Path No. 1	Path No. 2	Path No. 3
Type of product (s)			
Import or export			
Specific gravity / API gravity			
Maximum flow rate (bph)			
Maximum pressure			
Maximum temperature			
Sulfur content			
Paraffin			
Annual volume (barrels per year)			
Oceanographic and Site Data:			
Reference water depth (mean sea level)			
Maximum tidal range (astronomical, storm, total)			
Maximum wave height (one year and 100 year)			
Significant wave height (one year and 100 year)			
Wave period (one year and 100 year)			
Wind speed (one minute and one hour) (one year and 100 year)			
Currents (surface and seabed)			
Ice thickness, crushing strength			
Air temperature (minimum, maximum)			
Water temperature (minimum, maximum)			
Directionalities: explain if there are predominant wind, wave and/or current directions or combined conditions which may require special consideration for vessel mooring.			

Soils Data: general description of seabed soil conditions or information describing other anchoring systems or foundations in the area. If available, effective submerged unit weight for all soil layers down to about 100 ft.	
Tanker Characteristics:	
Tanker sizes (minimum and maximum dwt)	
Frequency of tanker calls at this terminal	
Fluid Transfer System:	
Marine pipeline(s) - number, length and diameter (supplied by others)	
Pigging requirements (describe)	
Pipeline End Manifold ("PLEM") by SOFEC?	
Underbuoy hose(s) - number of strings and diameter (if known)	
Swivel - commingled or separate flowpaths for each hose string	
Floating hose(s) - number of strings and diameters (if known)	
Single or double carcass for hose strings?	
Breakaway couplings in each floating hose string?	
Other Considerations	
Telemetry system requirements	
Hydraulic operated valve requirements on PLEM and surface	

Other Comments: