Greater Houston Port Bureau

Data Standard for Vessel, Carrier, Agent Pre-Arrival

Greater Houston Port Bureau

The Pre-Arrival Data Standard

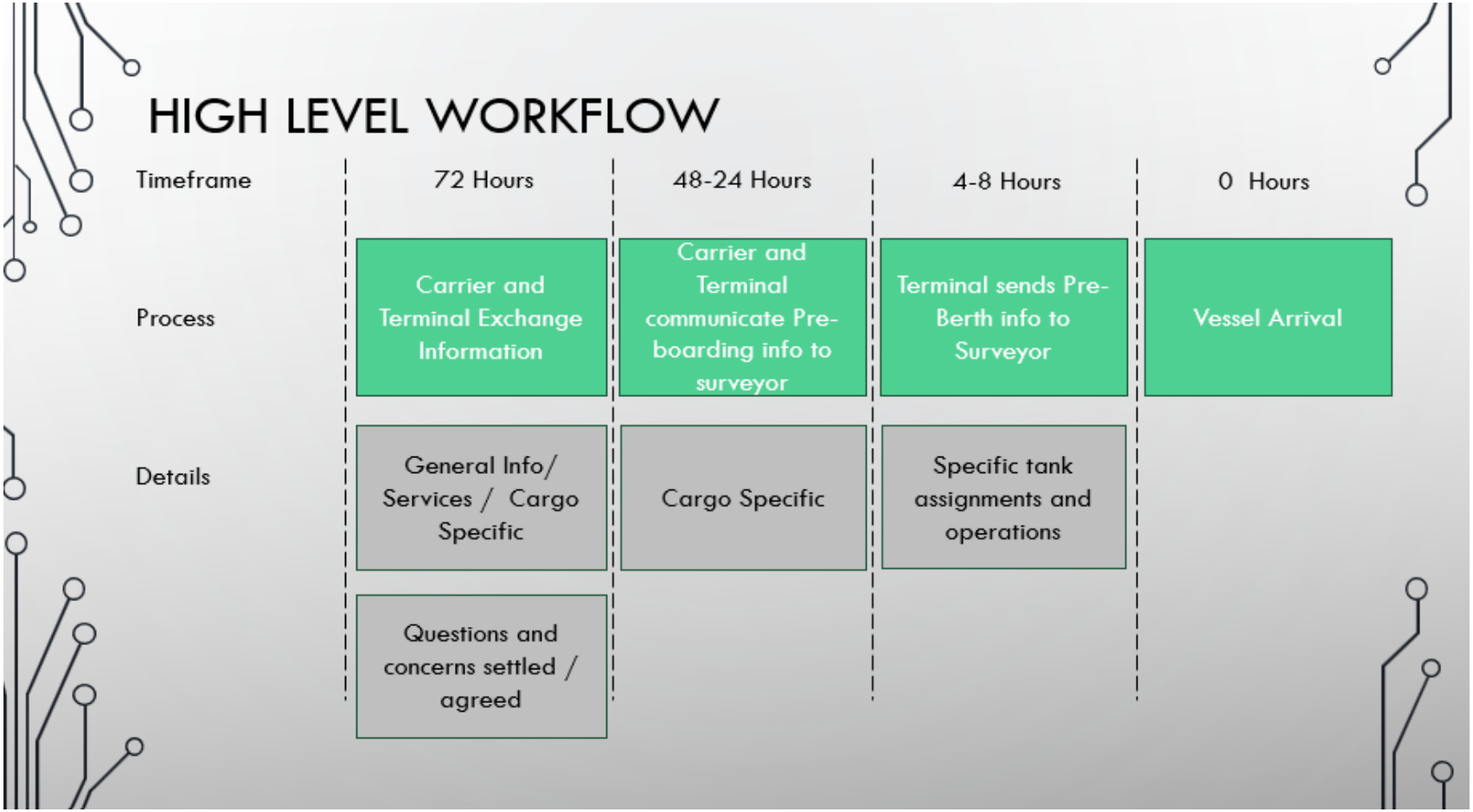
This data standard represents a cross-industry effort to catalog commonly exchanged information between carriers, agents, and terminals prior to vessel arrival alongside the terminal. The standard is published to serve as a master list of data fields that could be used by port stakeholders and digital service providers to design pre-arrival forms and data systems for the purpose of streamlining/digitizing pre-arrival communications.

Efforts have been made to use standardized terminologies and to arrange the data fields in a logical order. By utilizing a common data standard when designing forms and digital systems, companies can develop solutions at their own pace while having greater confidence that their solutions will be interchangeable with other companies. In short, this data standard intents to accelerate the acceptance of digitized pre-arrival communications in the Houston area.

While great efforts have been made to make this standard as complete and accurate as possible, it remains a living document. Questions and suggestions for improvement and/or modification can be submitted to the Greater Houston Port Bureau Efficiency Committee for further consideration and review.

Efficiency is a journey involving many stakeholders. If you want to find out more or participate in the discussions that resulted in this document, please contact the Greater Houston Port Bureau at info@txgulf.org or (713) 678-4300.

HIGH LEVEL WORKFLOW



Data Standard for Vessel, Carrier, Agent Pre-Arrival

Ship	Terminal	Required	General Terminal Information		Data Provider	Data Type	Description	Comment		
X	X	X	Terminal Name		Terminal	String	Full name of the terminal			
X	X	X	Terminal Email Address		Terminal	String	Email address of the primary contact/prearrival focal point a the terminal			
X	X	X	Terminal Phone Number		Terminal	String	Phone number of the Terminal			
X	X	X	Terminal Address		Terminal	String	Address of the Terminal			
X	X	X	**General Vessel Information**		**Data Provider**	**Data Type**	**Description**	**Comment**		
			Message Date and Time:		Vessel	Date/Time	Date and time that the info below was gathered and was considered accurate			
X	X	X	Vessel Name:		Vessel	String	The ship's name shown on the IMO ship's certificates.			
X	X	X	Vessel IMO Number:		Vessel	Integer	The unique ship identification number shown on its IMO ship's certificate.			
X	X	X	Flag state:		Vessel	String	Flag state of the vessel			
X	X	X	Port of Registry:		Vessel	String	Port where the vessel is registered			
X	X	X	Vessel Company Name:		Vessel	String	The name of the vessel manager			
			Vessel Email:		Vessel	String	Email address of the primary contact/prearrival focal point			
			Vessel Phone:		Vessel	String	Phone number of the primary contact/prearrival focal point			
			Agent (Company name):		Vessel	String	The name of the agent			
			Agent Email:		Vessel	String	Email address of the primary contact/prearrival focal point			
			Agent Phone:		Vessel	String	Phone number of the primary contact/prearrival focal point			
X	X	X	**ISPS**		**Data Provider**	**Data Type**	**Description**	**Comment**		
			Vessel security level (MARSEC)		Vessel	Enumerated	MARSEC 1 (Normal), MARSEC 2 (Hightened), MARSEC 3 (Highest)	MARSEC stands for MARitime SECurity. It is a three-tiered maritime security system used in North America, specifically by the United States and Canada, to communicate the current threat level to maritime stakeholders such as ports, vessels, and facilities.		
			Name of the ship security officer:		Vessel	String	33 CFR §104.215 – Ship Security Officer outlines the requirement that each vessel subject to the regulations must designate a Ship Security Officer who is responsible for the security of the vessel, including implementation and maintenance of the vessel security plan.			
			Name of the captain upon arrival:		Vessel	String				
			Name of the captain upon departure:		Vessel	String				
			Number of crew including the captain:		Vessel	Integer				
			Does the Company conduct background checks for all personnel (Y/N)?		Vessel	Boolean (Yes/No)				
			Are all officers responsible for cargo operations able to speak and understand English effectively (Y/N)?		Vessel	Boolean (Yes/No)				

X	X	X	**ISPS**		**Data Provider**	**Data Type**	**Description**	**Comment**		
			Shore security level (MARSEC)		Terminal	Integer	MARSEC 1 (Normal), MARSEC 2 (Hightened), MARSEC 3 (Highest)	MARSEC stands for MARitime SECurity. It is a three-tiered maritime security system used in North America, specifically by the United States and Canada, to communicate the current threat level to maritime stakeholders such as ports, vessels, and facilities.		
		X	**Vessel Details**				**Data Provider**	**Data Type**	**Description**	**Comment**
				Arrival	**Departure**	**Units**				
			Anticipated DWT (MT):				Vessel	Integer		Deadweight (DWT) refers to the total weight a ship can safely carry, including: Cargo, Fuel, Fresh water, Ballast water Provisions, Passengers and crew
			Anticipated Displacement (MT):				Vessel	Integer		Dead weight + Light ship = Displacement
			Anticipated Draft:			Meters	Vessel	Real Number		
			Anticipated Manifold Height from waterline			Meters	Vessel	Real Number		
			Anticipated Freeboard			Meters	Vessel	Real Number		
			Length Overall:			Meters	Vessel	Real Number		
			Beam:			Meters	Vessel	Real Number		
			Number of Cargo Manifolds:				Vessel	Integer		
			Number of Vapor Return Lines:				Vessel	Integer		
			Max Number of Simultaious Cargo Operations Allowed by Vessel				Vessel	Integer		
			BWTS Installed and working				Vessel	Boolean (Yes/No)		
X			ETA - Berth				Vessel	Date and time	Date and time the ship plans to arrive at a specific location, PTA.	BWTS = Ballast Water Treatment System
X			TPE Number:				Vessel			TPE stands for Transportation and Exportation. With a TPE number a vessel can continue to do cargo operations prior US Customs physically visiting the vessel. 19 CFR § 18.20–18.27
	X		Previous Port:				Vessel	String		
	X		Next Port:				Vessel	String		
X	X	X	**Cargo Specific (Loading Chems to a Vessel)**	☐			**Data Provider**	**Data Type**	**Description**	**Comment**
X	X	X	Cargo Name	Cargo A	Cargo B	Etc.	Terminal (Validated by the Vessel)	Text		
			Order / Reference Number:				Terminal (Validated by the Vessel)	Text	Typically an order numer, shipment number, or other specific reference number	
X	X	X	Cargo Volume:				Terminal (Validated by the Vessel)	Real Number		
			Cargo Unit of Measure:				Terminal (Validated by the Vessel)	Enumerated List	MT, ST, BBL, GAL, LBS	
			Cargo Option:				Terminal (Validated by the Vessel)	Enumerated List	MOLOO, LOO, MOLCO, Load to Draft, No Option, LCO, MOO, MCO, MinMax	
			Cargo Option %:				Terminal (Validated by the Vessel)	Real Number		
			Cargo Sequence Number:				Terminal (Validated by the Vessel)	Integer		
			Vessel Orders Match Terminal Orders	☐	☐	☐	Vessel	True/False		Confirmation that the vessel's cargo nomination information is the same as the terminal's
X	X	X	Exceptions/Comments:				Vessle	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
X	X	X	Anticipated Cargo Temp (F):				Terminal	Real Number		
			Anticipated Berth Name:				Terminal	Text		
X	X	X	Max Shore Pump Rate Rate				Terminal	Real Number		
			Max Shore Pump Rate Rate Unit:				Terminal	Enumerated List	BBL/Hour, m^3/hr, MT/HR, GAL/HR, LBS/HR	

X	X	X	**Cargo Specific (Loading Chems to a Vessel)**	☐			**Data Provider**	**Data Type**	**Description**	**Comment**
			Product ready / Inventory available (Y/N):				Terminal	Yes/No		
			If no, date that product will be available:				Terminal	Date and Time		
X	X	X	Shore manifold size:				Terminal	Real Number		
			Shore manifold connection type:				Terminal	Enumerated List	ANSI, API	
			Vessel cargo manifold size:				Vessel	Real Number		
			Vessel cargo manifold connection type:				Vessel	Enumerated List	ANSI, API	
			Vessel requests that the terminal provide the reducer? (Y/N):				Vessel	Yes/No		
			Cargo Tank(s) Name:				Vessel	Text		
X	X	X	Max Allowed Load Rate:				Vessel	Real Number		
			Max Allowed Load Rate Unit:				Vessel	Enumerated List	BBL/Hour, m^3/hr, MT/HR, GAL/HR, LBS/HR	
			Tank Inspections needed alongside (Y/N):				Vessel	Yes/No		
			Will tanks arrive in prepurged condition? (Y/N):				Vessel	Yes/No		
			If Yes, what O2%?				Vessel	Real Number		
X	X	X	**Purging Services**	☑						
X	X	X	Purging Services Requested (Y/N):				Vessel	Yes/No		
X	X	X	If yes, N2 amount needed (MCF):				Vessel	Real Number		
X	X		If yes, size of vessel N2 manifold:				Vessel	Integer		
			If yes, vessel N2 connection type:				Vessel	Enumerated List	ANSI, API	
			If yes, size of shore N2 line:				Terminal	Integer		
			If yes, shore N2 connection type:				Terminal	Enumerated List	ANSI, API	
			If yes, will the N2 invoice go to the carrier or to the charterer?				Vessel	Enumerated List	Carrier, Charterer, other	
			Purging comments:				Vessel	Text		
X	X	X	Vapor return required? (Y/N)				Vessel	Yes/No		
X	X	X	If yes, size of vessel vapor manifold:				Vessel	Integer		
			If yes, vessel vapor connection type:				Vessel	Enumerated List	ANSI, API	
			If yes, size of shore vapor manifold:				Terminal	Integer		
			If yes, shore vapor connection type:				Terminal	Enumerated List	ANSI, API	
			If Yes, vapor return routed to:				Terminal	Enumerated List	Flare, Absorbtion, Shore Tank, etc.	
			Vessel vapor return comments:				Vessel	Text		
			Shore vapor return comments:				Terminal	Text		
			1st Prior cargo:				Vessel	Text		
			2nd Prior cargo:				Vessel	Text		
			3rd Prior cargo:				Vessel	Text		
			Surveyor Company Name:				Vessel	Text		
			Suveyor email:				Vessel	Text		
			Surveyor Phone:				Vessel	Text		
			Sampling will be done alongside? (Y/N):				Vessel	Yes/No		
			Sampling will be open or closed?:				Vessel	Enumerated List	Open, closed	
			Cargo will be transshipped (Y/N):				Vessel	Yes/No		
			If yes, daughter vessel will be ship or barge?:				Vessel	Enumerated List	Ship, Barge	
			Name of daughter vessel/barge:				Vessel	Text		
			Daughter vessel/barge ETA:				Vessel	Date and Time		
			Cargo Remarks / Special requests:				Vessel	Text		
X	X	X	**Cargo Specific (Discharging chems from a vessel)**	☐			**Data Provider**	**Data Type**	**Description**	**Comment**
X	X	X	Cargo Name	Cargo A	Cargo B	Etc.	Terminal (Validated by the Vessel)	Text		
X	X	X	Order / Reference Number:				Terminal (Validated by the Vessel)	Text	Typically an order numer, shipment number, or other specific reference number	
			Cargo Volume				Terminal (Validated by the Vessel)	Real Number	Data Validation: needs to be a number	
			Cargo Unit of Measure				Terminal (Validated by the Vessel)	Enumerated List	MT, MTv, BBL, GAL, ST, LBS.	
			Cargo Sequence Number				Terminal (Validated by the Vessel)	Integer		
			Vessel Orders Match Terminal Orders	☐	☐	☐	Vessel	True/False	Checked if true. Exceptions/Comments added below if False.	Confirmation that the vessel's cargo nomination information is the same as the terminal's
X	X	X	Exceptions/Comments:				Vessle	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
X	X	X	Anticipated Berth Name				Terminal	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.

X	X	X	**Cargo Specific (Discharging chems from a vessel)**	☐			**Data Provider**	**Data Type**	**Description**	**Comment**
			Shore tank ullage Available (Y/N)				Terminal	Yes/No	If there is not enough room in the shore tank to accommodate the discharge of the full cargo quantity from the ship, this question should be answered "No."	Ullage refers to the empty space in a tank above the liquid surface and below the tank roof. In other words, it is the volume of vapor or air left in the tank that is not occupied by liquid.
			If No, date that ullage will be available				Terminal	Date and Time	This is the anticipated date and time when the shore tank will have enough room to accommodate the full discharge quantity from the ship.	
X	X	X	Shore manifold size:				Terminal	Real Number		
			Shore manifold connection type:				Terminal	Enumerated List	ANSI, API	
			Vessel cargo manifold size:				Vessel	Real Number		
			Vessel cargo manifold connection type:				Vessel	Enumerated List	ANSI, API	
			Reducer needed? (Y/N)				Vessel	Yes/No		
			Max Cargo Discharge Rate (MT/HR)				Vessel	Real Number		
			Anticipated cargo temp on arrival (F):				Vessel	Real Number		
			Vessel cargo tank(s):				Vessel	Text		
X	X	X	Cargo H2S%:				Vessel	Real Number		
			Date of H2S reading:				Vessel	Date and Time		
			Sampling will be done alongside? (Y/N)				Vessel	Yes/No		
X	X	X	Sampling will be done open or closed?				Vessel	Enumerated List	Open, closed	
			Sampler model				Vessel	MMC or other make		
X	X	X	Will tank arrive with an inert vapor space? (Y/N)				Vessel	Text	Model / type	
			If yes, %O2 or PPM:				Vessel	Real Number		
X	X	X	N2 Padding needed? (Y/N)				Vessel	Yes/No		
			MARPOL Pre-wash? (Y/N)				Vessel	Yes/No		
			Cargo Remarks / Special requests:				Vessel	Text		
X	X	X	**Cargo Specific (Loading Oil/CPP to a Vessel)**	☐			**Data Provider**	**Data Type**	**Description**	**Comment**
X	X	X	Cargo Name	Cargo A	Cargo B	Etc.	Terminal (Validated by the Vessel)	Text		
			Order / Reference Number:				Terminal (Validated by the Vessel)	Text	Typically an order numer, shipment number, or other specific reference number	
X	X	X	Cargo Volume:				Terminal (Validated by the Vessel)	Real Number		
			Cargo Unit of Measure:				Terminal (Validated by the Vessel)	Enumerated List	MT, ST, BBL, GAL, LBS	
			Cargo Option:				Terminal (Validated by the Vessel)	Enumerated List	MOLOO, LOO, MOLCO, Load to Draft, No Option, LCO, MOO, MCO, MinMax	
			Cargo Option %:				Terminal (Validated by the Vessel)	Real Number		
			Cargo Sequence Number:				Terminal (Validated by the Vessel)	Integer		
			Vessel Orders Match Terminal Orders:	☐	☐	☐	Vessel	True/False	Checked if true. Exceptions/Comments added below if False.	Confirmation that the vessel's cargo nomination information is the same as the terminal's
X	X	X	Exceptions/Comments:				Vessle	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
			Expected top off rate:				Vessel	Real Number		
			Expected top off rate units:				Vessel	Enumerated List	Cubic Meters, BBL's	
			How long is it anticipated to run a the top off rate (Minutes)?				Vessel	Real Number		
X	X	X	Anticipated Cargo Temp (F):				Terminal	Real Number		
			Anticipated Berth Name:				Terminal	Text		
X	X	X	Max Shore Pump Rate Rate (MT/HR):				Terminal	Real Number		
X	X	X	Vapor return required? (Y/N)				Vessel	Yes/No	BBL/Hour, m^3/hr, MT/HR, GAL/HR, LBS/HR	
X	X	X	If yes, size of vessel vapor manifold:				Vessel	Real Number		
			If yes, vessel vapor connection type:				Vessel	Enumerated List	ANSI, API	
			If yes, size of shore vapor manifold:				Terminal	Real Number		
			If yes, shore vapor connection type:				Terminal	Enumerated List	ANSI, API	
			If Yes, vapor return routed to:				Terminal	Enumerated List	Flare, Absorbtion, Shore Tank	
			Vessel vapor return comments:				Vessel	Text		
			Shore vapor return comments:				Terminal	Text		
X	X	X	Max Shore Pump Rate Rate:				Terminal	Real Number		

X	X	X	**Cargo Specific (Loading Oil/CPP to a Vessel)**	☐			**Data Provider**	**Data Type**	**Description**	**Comment**
			Max Shore Pump Rate Rate Units:					Enumerated List	BBL/Hour, m^3/hr	
			Product ready / Inventory available (Y/N):				Terminal	Yes/No		
			If no, date that product will be available:				Terminal	Date and Time		
X	X	X	Shore manifold size:				Terminal	Real Number		
			Shore manifold connection type:				Terminal	Enumerated List	ANSI, API	
			Vessel cargo manifold size:				Vessel	Real Number		
			Vessel cargo manifold connection type:				Vessel	Enumerated List	ANSI, API	
			Vessel requests that the terminal provide the reducer? (Y/N):				Vessel	Yes/No		
			Cargo Tank(s) Name:				Vessel	Text		
X	X	X	Max Allowed Load Rate:				Vessel	Real Number		
			Max Allowed Load Rate Unit:				Vessel	Enumerated List	BBL/Hour, m^3/hr	
			Cargo Specific (Disch Oil/CPP from a Vessel)	☐			**Data Provider**	**Data Type**	**Description**	**Comment**
X	X	X	Cargo Name:	Cargo A	Cargo B	Etc.	Terminal (Validated by the Vessel)	Text		
X	X	X	Order / Reference Number:				Terminal (Validated by the Vessel)	Text	Typically an order numer, shipment number, or other specific reference number	
			Cargo Volume:				Terminal (Validated by the Vessel)	Real Number		
			Cargo Unit of Measure:				Terminal (Validated by the Vessel)	Enumerated List	MT, MTv, BBL, GAL, ST, LBS.	
			Cargo Sequence Number:				Terminal (Validated by the Vessel)	Integer		
			Vessel Orders Match Terminal Orders?	☐	☐	☐	Vessel	True/False	Checked if true. Exceptions/Comments added below if False.	Confirmation that the vessel's cargo nomination information is the same as the terminal's
X	X	X	Exceptions/Comments:				Vessle	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
X	X	X	Anticipated Berth Name:				Terminal	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
			Shore tank Ullage Available (Y/N):				Terminal	Yes/No	If there is not enough room in the shore tank to accommodate the discharge of the full cargo quantity from the ship, this question should be answered "No."	Ullage refers to the empty space in a tank above the liquid surface and below the tank roof. In other words, it is the volume of vapor or air left in the tank that is not occupied by liquid.
			If No, date that Ullage will be available:				Terminal	Time and Date	This is the anticipated date and time when the shore tank will have enough room to accommodate the full discharge quantity from the ship.	
X	X	X	Shore manifold size:				Terminal	Real Number		
			Shore manifold connection type:				Terminal	Enumerated List	ANSI, API	
			Vessel cargo manifold size:				Vessel	Real Number		
			Vessel cargo manifold connection type:				Vessel	Enumerated List	ANSI, API	
			Reducer needed? (Y/N):				Vessel	Yes/No		
			Number of reducers:				Vessel	Integer		
			Max Cargo Discharge Rate:				Vessel	Real Number		
			Max Cargo Discharge Rate Unit:				Vessel	Enumerated List	BBL/Hour, m^3/hr	
			Anticipated cargo temp on arrival (F):				Vessel	Real Number		
			Vessel cargo tank(s):				Vessel	Text		
X	X	X	Cargo H2S%:				Vessel	Real Number		
			Date of H2S reading:				Vessel	Date and Time		
			Sampling will be done alongside? (Y/N)				Vessel	Yes/No		
X	X	X	Sampling will be done open or closed?				Vessel	Enumerated List	Open, closed	
X	X	X	Will tank arrive with an inert vapor space? (Y/N)				Vessel	Yes/No	No Button / Yes Button	
			If yes, %O2 or PPM				Vessel	Real Number		
X	X	X	N2 Padding needed? (Y/N)				Vessel	Yes/No	No Button / Yes Button	
			COW planned? (Y/N)				Vessel	Yes/No	No Button / Yes Button	
			If yes, number of tanks being COW'ed:				Vessel	Integer		
X	X	X	Vapor return required? (Y/N)				Vessel	Yes/No	No Button / Yes Button	
X	X	X	If yes, size of vessel vapor manifold:				Vessel	Real Number		
			If yes, vessel vapor connection type:				Vessel	Enumerated List	ANSI, API	

			Cargo Specific (Disch Oil/CPP from a Vessel)	☐			Data Provider	Data Type	Description	Comment
			If yes, size of shore vapor manifold:				Terminal	Real Number		
			If yes, shore vapor connection type:				Terminal	Enumerated List	ANSI, API	
			If Yes, vapor return routed to:				Terminal	Enumerated List	Flare, Absorbtion, Shore Tank	
			Vessel vapor return comments:				Vessel	Text		
			Shore vapor return comments:				Terminal	Text		
			Can the vessel provide a Vapor tightness certificate?				Vessel	Yes.No		
			Is cargo heated (Y/N)?				Vessel	Yes/No		
			Cargo temp after heating (F):				Vessel	Real Number		
			Cargo Remarks / Special requests:				Vessel	Text		
			Cargo Specific (Loading Gas to a Vessel)	☐			Data Provider	Data Type	Description	Comment
			Cargo Name	Cargo A	Cargo B	Etc.	Terminal (Validated by the Vessel)	Text		
			Order / Reference Number:				Terminal (Validated by the Vessel)	Text	Typically an order numer, shipment number, or other specific reference number	
			Cargo Volume:				Terminal (Validated by the Vessel)	Real Number		
			Cargo Option:				Terminal (Validated by the Vessel)	Text		Ex. +/- 5% MOLOO
			Cargo Unit of Measure:				Terminal (Validated by the Vessel)	Enumerated List	MT, MTv, Mta, BBL, GAL, ST, LBS.	
			Cargo Sequence Number:				Terminal (Validated by the Vessel)	Integer		
			Vessel Orders Match Terminal Orders:	☐	☐	☐	Vessel	True/False	Checked if true. Exceptions/Comments added below if False.	Confirmation that the vessel's cargo nomination information is the same as the terminal's
X	X	X	Exceptions/Comments:				Vessel	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
X	X	X	Anticipated Berth Name:				Terminal	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
			Size of the Terminal liquid manifold:				Terminal	Real Number		
			Terminal liquid manifold flange type:				Terminal	Enumerated List	ANSI 150, ANSI 300, DIN, JIS	
			Number of liquid connections provided:				Terminal	Integer		
			Type of liquid connection:				Terminal	Enumerated List	Hose, Arm	
			Is a vapor line needed for operation? (Y/N)				Terminal	Yes/No		
			Size of the Terminal vapor manifold:				Terminal	Real Number		
			Terminal vapor manifold flange type:				Terminal	Enumerated List	ANSI 150, ANSI 300, DIN, JIS	
			Number of vapor connections provided:				Terminal	Integer		
			Type of vapor connection:				Terminal	Enumerated List	Hose, Arm	
			Can the Vessel connect to the Terminal manifold? (Y/N)				Vessel	Yes/No		
			Ship is equipped with raised surface flange type (Yes/No)?				Vessel	Yes/No		
			Ship has reducers to connect raised surface flange? (Yes/No)				Vessel	Yes/No		
			Total capacity of cargo tanks in M3:				Vessel	Real Number		
			Total capacity of cargo tanks in barrels:				Vessel	Real Number		
			Number of generators:				Vessel			
			Are all generators fully operational? (Y/N)				Vessel	Yes/No		
			Number of compressors:				Vessel	Integer		
			Are all compressors fully operational? (Y/N)				Vessel	Yes/No		
			Will all critical equipment be fully functional during load / discharge ops? (Y/N)				Vessel	Yes/No		
			Expected start up rate:				Vessel	Real Number		
			Expected start up rate units:				Vessel	Enumerated List	Cubic Meters, BBL's, etc.	

			Cargo Specific (Loading Gas to a Vessel)	☐			Data Provider	Data Type	Description	Comment
			How long is it anticipated to run a the start up rate (Minutes)?				Vessel	Real Number		
			Prior cargo product of each tank that will be loaded:				Vessel	Text		
			Expected loading rate :				Vessel	Real Number		
			Expected loading rate Unit:				Vessel	Enumerated List	BPH, MTH, Cubic Meters/Hour	
			Anticipated Cargor Temperature (F):				Terminal	Real Number		
			Anticipated cargo density:				Terminal	Real Number		
			Number of loading arms:				Vessel	Integer		
			Can vessel load / discharge products concurrently (Y/N)?				Vessel	Yes/No		
			Where does liquid manifold safety valve vent to?				Vessel	Text		
			Cargo tanks USCG safety valve setting (PSIG)				Vessel	Enumerated List	PSIG, BAR	
			What pressure does tank liquid manifold safety valve lift at / setting PSIG?				Vessel	Real Number		
			Where does tank vapor header Safety valve vent to?				Vessel	Text		
			What pressure does tank vapor header safety valve lift at / setting? (PSIG)				Vessel	Real Number		
			Normal operating pressure (PSIG):				Vessel	Real Number		
			Maximum product manifold pressure (PSIG):				Vessel	Real Number		
			Does vessel have vapor tightness certificate? (Yes/No)				Vessel	Yes/No		
			What is the micron size of the strainer?				Vessel	Real Number		
			Cargo Specific (Discharging Gas from a Vessel)	☐			Data Provider	Data Type	Description	Comment
			Cargo Name:				Terminal (Validated by the Vessel)			
			Order / Reference Number:				Terminal (Validated by the Vessel)		Typically an order numer, shipment number, or other specific reference number	
			Cargo Volume:				Terminal (Validated by the Vessel)	Real Number		
			Cargo Unit of Measure:				Terminal (Validated by the Vessel)	Enumerated List	MT, MTv, BBL, GAL, ST, LBS.	
			Cargo Sequence Number				Terminal (Validated by the Vessel)			
			Vessel Orders Match Terminal Orders	☐	☐	☐	Vessel	True/False	Checked if true. Exceptions/Comments added below if False.	Confirmation that the vessel's cargo nomination information is the same as the terminal's
X	X	X	Exceptions/Comments:				Vessel	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
X	X	X	Anticipated Berth Name:				Terminal	Text		If the vessel's nomination information is not the same as the Terminal's, this comment holds information about the differnce.
			Size of the Terminal liquid manifold:				Terminal	Real Number		
			Terminal liquid manifold flange type:				Terminal	Enumerated List	ANSI 150, ANSI 300, DIN, JIS	
			Number of liquid connections provided:				Terminal	Integer		
			Type of liquid connection:				Terminal	Enumerated List	Hose, Arm	
			Is a vapor line needed for operation? (Y/N)				Terminal	Yes/No		
			Size of the Terminal vapor manifold:				Terminal	Real Number		
			Terminal vapor manifold flange type:				Terminal	Enumerated List	ANSI 150, ANSI 300, DIN, JIS	
			Number of vapor connections provided:				Terminal	Integer		
			Type of vapor connection:				Terminal	Enumerated List	Hose, Arm	
			Can the Vessel connect to the Terminal manifold? (Y/N)				Vessel	Yes/No		
			Ship is equipped with raised surface flange type (Yes/No)?				Vessel	Yes/No		
			Ship has reducers to connect raised surface flange (Yes/No)?				Vessel	Yes/No		
			Total capacity of cargo tanks in M3:				Vessel	Real Number		
			Total capacity of cargo tanks in barrels:				Vessel	Real Number		
			Number of generators:				Vessel	Integer		
			Are all generators fully operational? (Y/N)				Vessel	Yes/No		
			Number of compressors:				Vessel	Integer		
			Are all compressors fully operational? (Y/N)				Vessel	Yes/No		
			Expected Discharge rate :				Vessel	Real Number		

			Cargo Specific (Discharging Gas from a Vessel)	☐			Data Provider	Data Type	Description	Comment
			Expected discharge rate Unit:				Vessel	Enumerated List	BPH, MTH, Cubic Meters/Hour, etc.	
			Anticipated Cargor Temperature (F):				Vessel	Real Number	Deg F	
			Anticipated cargo density:				Vessel	Real Number		
			Can vessel load / discharge products concurrently? (Y/N)				Vessel	Yes/No		
			Where does liquid manifold safety valve vent to?				Vessel	Text	PSI	
			Cargo tanks USCG safety valve setting in (Unit?)				Vessel	Enumerated List		
			What pressure does tank liquid manifold safety valve lift at / setting? (PSIG)				Vessel	Real Number	PSI	
			Where does tank vapor header Safety valve vent to?				Vessel	Text		
			What pressure does tank vapor header safety valve lift at / setting (PSIG)				Vessel	Real Number	PSI	
			Normal Operating pressure (PSIG)				Vessel	Real Number	PSI	
			Maximum product manifold pressure:				Vessel	Real Number		
			Does vessel have vapor tightness certificate? (Y/N)				Vessel	Yes/No		
			What is the micron size of the strainer?				Vessel	Real Number		
X	X	X	**Services**		**Data Provider**	**Data Type**	**Description**	**Comment**		
			Max Number of Simultaious Cargo Operations Allowed by Terminal:		Terminal	Integer			Data Validation: needs to be a number	
			Terminal entertains requests for reducers? (Y/N)		Terminal	Yes/No				
			Bunkering allowed alongside? (Y/N)		Terminal	Yes/No				
			Vessels allowed to release inert gas to atm? (Y/N)		Terminal	Yes/No				
			Vessels allowed to crude oil wash (COW) alongside? (Y/N)		Terminal	Yes/No				
X	X		Vessel allowed to do tank cleaning alongside? (Y/N)		Terminal	Yes/No				
			Terminal offers a shore gangway? (Y/N)		Terminal	Yes/No				
			Terminal supplies fresh water as a service? (Y/N)		Terminal	Yes/No				
			Terminal allows transshipment operations alongside? (Y/N)		Terminal	Yes/No				
X	X	X	Policy or restrictions for allowing tank inspections alongside:		Terminal	Text				
			COC inspection planned while alongside? (Y/N)		Vessel	Yes/No				
			Shore Gangway Requested (Y/N)		Vessel	Yes/No				
			Trash Service Requested (Y/N)		Vessel	Yes/No				
			Vessel will be doing repairs alongside (Y/N)?		Vessel	Yes/No				
			If yes, please describe?		Vessel	Text				
			Vessel will be receiving stores (Y/N)		Vessel	Yes/No				
			If yes, by what method?		Vessel	Text				
			Annex I slops? (Y/N)		Vessel	Yes/No				
			If yes, what method?		Vessel	Enumerated List	Mobile Facility, Terminal			
			If requesting terminal services, how much Annex I Material (MT)?		Vessel	Real Number				
			Annex II slops? (Y/N)		Vessel	Yes/No				
			If yes, what method?		Vessel	Enumerated List	Mobile Facility, Terminal			
			If requesting terminal services, how much Annex II Material (MT)?		Vessel	Real Number				
			Describe the components of the Annex II material?		Vessel	Text				
			Vessel is planning to bunker alongside? (Y/N)		Vessel	Yes/No				
			Vessel requests freshwater to be supplied? (Y/N)		Vessel	Yes/No				
			If yes, freshwater amount:		Vessel	Real Number				
			If Yes, freshwater units:		Vessel	Enumerated List	MT, BBL, GAL, LBS.			
			Remarks / Special Requets:		Vessel	Text				