


**Gas Form C**

Vessel Name:	PGC STRIDENT FORCE
Last Modified:	09/03/17
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1	GENERAL		
1.1	Builder & Yard / Hull Number	HIGAKI SHIP BUILDING	506
1.2	Year Built	1999	
1.3	Flag	BAHAMAS	
1.4	Signal Letters / Normal Station Watched	C6Q08	
1.5	Classification	NK	
1.6	I.M.O. Certificate of Fitness Expiry	22 JUNE 2019	
1.7	USCG Letter of Compliance Expiry	30 OCTOBER 2015	

2	DIMENSIONS		
1.1	Length Overall	117.09 MTRS	
1.2	Length Between Perpendiculars	109.02 MTRS	
1.3	Beam (MLD)	19.60 MTRS	
1.4	Depth (MLD)	9.75 MTRS	
1.5	Scantling Draught (MLD)	7.60 MTRS	
1.6	LPG Loaded Draught (MLD)	7.57 MTRS	
1.7	Design Draft (Extreme)	7.58 MTRS	
1.8	Max height of mast above waterline (air draft) in SDWT / Ballast condition	29.37 MTRS	26.85 MTRS
	Max height of mast in collapsed condition above waterline (air draft) in SDWT / Ballast condition		
1.9	Height from Keel to top of Mast	34.4 MTRS	

3	TONNAGE		
3.1	Deadweight tonnage on LPG loaded draught	8485.4 T	
3.2	Gross registered tonnage	6560 T	
3.3	Net registered tonnage	1968 T	
3.4	Light ship Displacement	3892.6 T	
3.5	Displacement	12716 T	
3.6	Suez Canal Net Tonnage	6375.95 T	

4	MACHINERY			
4.1	Main engine Type / Max Power / RPM / Fuel Grade	AKASAKA MITSUBISHI	7200 PS (5295KW)	158 RPM
4.2	Main boilers Type / Make	FORCED CIRCULATING TYPE MULTITUDINOUS TUBE		MIURA KS-66
4.3	Maximum / Service Evaporation			
4.4	Electrical Generating # of Sets / Output per unit	3 X YANMAR D.G.		779 KVA - 450 V

5	SPEED		
5.1	Guaranteed Service Speed Ballast / Laden	15.0 knots	14.0 knots

6	ENERGY CONSUMPTION			
6.1	I/O @ Guaranteed speed Ballast / Laden	18.0 T/DAY	18.0 T/DAY	
	MDO @ Guaranteed speed Ballast / Laden / Port	1.5 T/DAY (1 A/E)	1.5 T/DAY	2.8 T/DAY
6.2	For Nitrogen Plant	185 Nm <sup>3</sup> /H x 1		

7	FRESH WATER CAPACITY AND CONSUMPTION		
7.1	Capacity of FW generators	10 -12 T	
7.2	Capacity of Tanks Boiler Feed Domestic	247.25 M3	

8	BUNKER CAPACITY		
8.1	Fuel Oil (density 0.990)	571.14 M3	
8.2	Diesel Oil (density 0.990)	275.96 M3	



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9	CARGO	
9.1	Number	2 TANKS
9.2	Type of Construction	2PG
9.3	Type, Details of Insulation	POLYURETHANE FOAM 35-40 KG/M3 150 MM MOISTURE AND FIRE RESISTENT
9.4	Minimum Temperature	-48° C
9.5	100% Capacity @ -48°C of # 1 Tank 100% Capacity @ -48°C of # 2 Tank Total 100% Capacity @ -163°C	3250 M3 3250 M3 6500 M3
9.6	Loading or Filling Restrictions	98%
9.7	The vessel's cargo tanks can be cooled down from ambient temperature for initial loading within	5 °o/H
9.8	Cargo Loading Performance. The Vessel is capable of receiving a full cargo(including Slow start and topping up, but excluding cooling of pipes, connecting/disconnecting) in less than 19 hours, provided the cargo tanks are properly cooled down and the vapors return line is suitable for the vessel to use the HD compressors	YES
9.9	Maximum Filling Rate	340 MT/H WITH VAPOUR RETURN 300 MT/H WITHOUT VAPOUR RETURN
9.10	Relief valve settings	7.0 KG/CM2 / 6.0KG/CM2 / 4.0KG/CM2
9.11	Loaded Boil-Off Design Rate during laden voyage shall be equal to or less than ___% of the full loaded cargo per day	N/A

10	CARGO PUMPS	
10.1	Number per Tank	1
10.2	Type and Make	DEEPWELL DW150/150-3-K+1 SVANEHOJ
10.3	Rated Capacity Each	260 M3/H
10.4	Cargo Discharging Performance (If a Vapor connection is not supplied, the vessel should be able to still comply with the statement generating return using the cargo vaporizer.)	18 H

11	SPRAY PUMPS	
11.1	Number per Tank	N/A
11.2	Type and Make	N/A N/A
11.3	Rated Capacity of Each Pump	N/A

12	CARGO INSTRUMENTATION	
12.1	Number & Type of Main Level Gauges & Accuracy	1 PER TANK, ENRAF 806, +/- 5mm
12.2	Number & Type of Backup Level Gauges & Accuracy	N/A
12.3	Number of Temperature Sensors in Each Tank	3
12.4	Position of Temp. Sensors within Cargo Tanks	TOP - 11 490 MM MIDDLE - 7 852 MM BOTTOM - 1220 MM
12.5	No / Type of Pressure Sensors & Accuracy	1 - YAMATAKE JTG 940A / +/- 0.1%



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13	Nitrogen Plant		
13.1	Type & Make of Equipment	MEMBRANE TYPE	
13.2	Capacity	185 M3 /H	
13.3	Quality of N <sub>2</sub> Gas Quality of CO Gas Quality of CO <sub>2</sub> Gas Quality of H <sub>2</sub> Gas Quality of O <sub>2</sub> Gas	99,5 % PURITY	

14	NITROGEN STORAGE		
14.1	Consumption	N/A	
14.2	Tank Capacity / Pressure	N/A	

15	BALLAST		
15.1	Tank Capacity	3155.97 M3	
15.2	Number & Rating of Ballast pumps	2	2x180 M3/H
15.3	Is Vessel Capable of Loading/discharging ballast concurrent with cargo operations	YES	

16	GAS COMPRESSORS		
16.1	High Duty	2 X SULTZER 2K160-2H	
16.2	Low duty		

17	DECK MACHINERY				
17.1	Mooring Winches Forecastle Main Deck Forward Main deck Aft Poop Deck	Number	Brake Capacity	Type	
		2	22.5 T	KAWASAKI 81V05MW13	
17.2	Size of Ropes Forecastle Main Deck Forward Main deck Aft Poop Deck	Number	Material	Length	Diameter
		4	MIX ROPE	220 M	44 MM
		4	MIX ROPE	220 M	44 MM
17.3	Cranes, Derricks, etc	1 CARGO HANDLING CRANE 4T 1 PROVISION CRANE 0.9T ENGINE ROOM CRANE 3T			

18	NAVIGATION & RADIO		
18.1	Navigation Aids	GPS X2 ,RADAR X2, AIS X1, ECDIS X2	
18.2	Radio Equipment	VHF X2 ,MF-HF, SART, EPIRB, NAVTEX, INMARSAT -C, INMARSAT -B	

19	CREW MEMBERS		
19.1	Officers Nationality	FILIPINO	
19.2	Crew Nationality	FILIPINO	
19.3	Number of Officers / Crew	8	10

END FORM C