

OCIMF Vessel Particulars Questionnaire HVPQ4

1 Chapter 1

1 GENERAL INFORMATION

1.1	Date this HVPQ document completed	Dec 17, 2009
1.2	Name of ship	Hellespont Trinity
1.3	LR/IMO Number	9118458
1.4	Last previous name	MARINA M.
1.4.1	Last previous name - date of name change	
1.5	Second last previous name	
1.5.1	Second last previous name - date of name change	
1.6	Third last previous name	
1.6.1	Third last previous name - date of name change	
1.7	Fourth last previous name	
1.7.1	Fourth last previous name - date of name change	
1.8	Flag	Marshall Island
1.9	Port of Registry	MAJURO
1.10	If the flag has been changed, what was previous flag?	Greece
1.11	Call sign	V7I03
1.12	INMARSAT number	353898959
1.13	Ship's fax number	353898960
1.14	Ship's telex number	453846625trin
1.15	Mobile Phone Number	na
1.16	Ship's Email address	ftrin@hellesponthammonia.de
1.17	Type of ship	Oil Tanker
1.18	Vessel's MMSI No. (Maritime Mobile Selective Call Identity Code)	538090184
1.19	Type of Hull	Double hull

2 OWNERSHIP AND OPERATION

1.20	Registered Owner	MS "Hellespont Trinity" GmbH & Co KG
1.20.1	Registered Owner - Full address	Kaiser-Wilhelm-Str. 9 , D-20355, Hamburg, Germany
1.20.2	Registered Owner - Office telephone number	+49 40 27 86 21 31
1.20.3	Registered Owner - Office telex number	VIA OPERATORS
1.20.4	Registered Owner - Office fax number	+49 40 27 86 21 30
1.20.5	Registered Owner - Office Email address	operations@hellesponthammonia.de
1.20.6	Registered Owner - Contact person	Matthias Imrecke
1.20.7	Registered Owner - Contact person after hours telephone number	+49 (0)172 4555692
1.21	Number of years this ship has been owned by Registered Owner	3 Years
1.22	Name of Technical Operator	HELLESPONT HAMMONIA GmbH & Co. KG
1.22.1	Technical Operator - Full Address	Kaiser-Wilhelm-Str. 9, D-20355, Hamburg, Germany
1.22.2	Technical Operator - Office telephone number	+49 40 27 86 21 31
1.22.3	Technical Operator - Office telex number	
1.22.4	Technical Operator - Office fax number	+49 40 27 86 21 30
1.22.5	Technical Operator - Office Email address	operations@hellesponthammonia.de
1.22.6	Technical Operator - Contact person (Designated Person Ashore)	Heinrich Braun
1.22.7	Technical Operator - Contact person after hours telephone number	+49 (0)172 9911431
1.22.8	Technical Operator - Emergency callout number	
1.22.9	Technical Operator - Emergency callout pager number	
1.22.10	Technical Operator - Contact details for person responsible for oil spill response	+49 172 43 60 792 Spyros Vlassopoulos
1.23	Number of years this vessel has been controlled by technical operator	3 Years
1.24	Total number of ships operated by this Technical Operator	3
1.25	Name of Commercial Operator	Hellespont Hammonia GmbH & Co. KG
1.25.1	Commercial Operator - Full Address	Kaiser-Wilhelm-Str. 9, D-20355 Hamburg, Germany
1.25.2	Commercial Operator - Office telephone number	+49 40 27 86 21 31
1.25.3	Commercial Operator - Office telex number	
1.25.4	Commercial Operator - Office fax number	+49 40 27 86 21 30
1.25.5	Commercial Operator - Office Email address	operations@hellesponthammonia.de
1.25.6	Commercial Operator - Contact person	Matthias Imrecke
1.25.7	Commercial Operator - Contact person after hours telephone number	+49 40 27 86 21 31

3 BUILDER

1.26	Builder	SAMSUNG HEAVY INDUSTRIES KOJE - KOREA
1.27	Date of building contract	May 10, 1994
1.28	Hull number	1144
1.29	Date keel laid	Nov 14, 1995
1.30	Date launched	Mar 02, 1996
1.31	Date delivered (Date of Built)	May 22, 1996
1.32	If applicable, date of completion of major hull changes	
1.33	List what changes were made with major hull change	

4 CLASSIFICATION

1.34	Classification society	American Bureau of Shipping
1.35	Class Notation	+A1(E) OIL CARRIER+AMS+ACCU "SH"
1.36	If Classification society changed, name of previous society	N/A
1.37	If Classification society changed, date of change	
1.38	Date of last dry-dock	Apr 29, 2006
1.39	Date of second last dry-dock	
1.40	Date next dry-dock due	May 31, 2011
1.41	Date of last special survey	May 26, 2006

1.42	Was last special survey an enhanced special survey?	Yes
1.43	Date next special survey due	May 31, 2011
1.44	If ship has Condition Assessment Programme (CAP) rating, what is the latest rating?	0
1.45	Certificate of Class (COC) (Last Annual)	Jul 06, 2008
1.46	Date of last boiler survey - Port boiler	Oct 30, 2003
1.47	Date of last boiler survey - Starboard boiler	Oct 30, 2004
1.48	Is the ship subject to Continuous Machinery Survey?	Yes
5	DIMENSIONS	
1.49	Length overall (LOA)	274.10 Metres
1.50	Length between perpendiculars (LBP)	264 Metres
1.51	Beam (extreme breadth)	47.81 Metres
1.52	Moulded breadth	47.8 Metres
1.53	Moulded depth	22.8 Metres
1.54	Keel to masthead (KTM)	50.7 Metres
1.55	Distance bow to bridge	228.37 Metres
1.56	Distance bridge front - mid point manifold	92.2 Metres
1.57	PARALLEL MID-BODY DIAGRAM	
1.57.1	Distance bow to mid-point manifold (BCM)	136.17 Metres
1.57.2	Distance stern to mid-point manifold (SCM)	137.93 Metres
1.57.3	Parallel body (light ship)	106.88 Metres
1.57.4	Parallel body, forward to mid-point manifold (light ship)	29 Metres
1.57.5	Parallel body, aft to mid-point manifold (light ship)	36 Metres
1.57.6	Parallel body (normal ballast)	136.00 Metres
1.57.7	Parallel body, forward to mid-point manifold (normal ballast)	77 Metres
1.57.8	Parallel body, aft to mid-point manifold (normal ballast)	60 Metres
1.57.9	Parallel body at loaded summer deadweight (SDWT)	155.00 Metres
1.57.10	Parallel body, forward to mid-point manifold at loaded SDWT	77 Metres
1.57.11	Parallel body, aft to mid-point manifold at loaded SDWT	78 Metres
1.58	Does ship have a bulbous bow?	Yes
6	TONNAGES	
1.59	Net Registered Tonnage (NRT)	45963
1.60	Gross Tonnage (GT)	80637
1.61	Suez Tonnage	73957.63
1.61.1	Suez Canal Gross Tonnage (SCGT)	
1.61.2	Suez Canal Net Tonnage (SCNT)	
1.62	Panama Canal Net Tonnage	
7	LOADLINE INFORMATION	
1.63.1	Summer Freeboard	6.819 Metres
1.63.2	Summer Draft	16.022 Metres
1.63.3	Summer Deadweight (SDWT)	148017.7 Metric Tonnes
1.63.4	Summer Displacement	170360.1 Metric Tonnes
1.64.1	Winter Freeboard	7.152 Metres
1.64.2	Winter Draft	15.689 Metres
1.64.3	Winter Deadweight	146469.8 Metric Tonnes
1.64.4	Winter Displacement	168812.2 Metric Tonnes
1.65.1	Tropical Freeboard	6.486 Metres
1.65.2	Tropical Draft	16.355 Metres
1.65.3	Tropical Deadweight	151908.1 Metric Tonnes
1.65.4	Tropical Displacement	174250.5 Metric Tonnes
1.66.1	Lightship Freeboard	20.393 Metres
1.66.2	Lightship Draft	2.448 Metres
1.66.3	Lightship Deadweight	Metric Tonnes
1.66.4	Lightship Displacement	22342.4 Metric Tonnes
1.67.1	Normal Ballast Condition Freeboard	14.782 Metres
1.67.2	Normal Ballast Condition Draft	8.018 Metres
1.67.3	Normal Ballast Condition Deadweight	56943.2 Metric Tonnes
1.67.4	Normal Ballast Condition Displacement	79285.6 Metric Tonnes
1.68.1	Segregated Ballast Condition Freeboard	15361 Metres
1.68.2	Segregated Ballast Condition Draft	7.48 Metres
1.68.3	Segregated Ballast Condition Deadweight	52437 Metric Tonnes
1.68.4	Segregated Ballast Condition Displacement	74779 Metric Tonnes
1.69	FWA at Summer Draft (Freeboard)	364 Millimetres
1.70	TPC Immersion at Summer Draft (Freeboard)	116.7 Metric Tonnes
1.71.1	Draught Fore at normal ballast conditions (Freeboard)	6.34 Metres
1.71.2	Draught Aft at normal ballast conditions (Draft)	8.63 Metres
1.72	Does ship have Multiple SDWT?	Yes
1.73	If ship has multiple SDWT, what is maximum assigned Deadweight?	148017.7 Metric Tonnes
1.74	What is the max. height of mast above waterline (air draft) in normal SBT condition?	43.22 Metres
8	RECENT OPERATIONAL HISTORY	
1.75	Has the ship traded continuously without requirement for unscheduled repairs since the last dry-dock, except for normal maintenance?	Yes
1.76	If unscheduled repairs have been carried out, what was the nature of the repairs?	N/A
1.77	Has ship been involved in a pollution incident during the past 12 months?	No
1.78	Has ship been involved in a grounding incident during the past 12 months?	No
1.79	Has ship been involved in a collision during the past 12 months?	No
2	Chapter 2	

1 CERTIFICATES		
2.1	Register Number	10397
2.2.1	Safety Equipment Certificate (SEC) (Issued)	Nov 10, 2008
2.2.2	Safety Equipment Certificate (SEC) (Expires)	May 31, 2011
2.2.3	Safety Equipment Certificate (SEC) (Last Annual)	Nov 10, 2008
2.3.1	Safety Radio Certificate (SRC) (Issued)	May 26, 2006
2.3.2	Safety Radio Certificate (SRC) (Expires)	May 31, 2011
2.3.3	Safety Radio Certificate (SRC) (Last Annual)	Jul 29, 2009
2.4.1	Safety Construction Certificate (SCC) (Issued)	May 26, 2006
2.4.2	Safety Construction Certificate (SCC) (Expires)	May 31, 2011
2.4.3	Safety Construction Certificate (SCC) (Last Annual)	Jul 06, 2008
2.5.1	International Loadline Certificate (ILC) (Issued)	May 26, 2006
2.5.2	International Loadline Certificate (ILC) (Expires)	May 31, 2011
2.5.3	International Loadline Certificate (ILC) (Last Annual)	Jul 06, 2008
2.6.1	International Oil Pollution Prevention Certificate (IOPPC) (Issued)	May 26, 2006
2.6.2	International Oil Pollution Prevention Certificate (IOPPC) (Expires)	May 31, 2011
2.6.3	International Oil Pollution Prevention Certificate (IOPPC) (Last Annual)	Jul 06, 2008
2.7	Type of Oil Tanker as specified by IOPPC Crude/Product (If not an oil tanker, specify)	Crude/Product
2.8.1	ISM Safety Management Certificate (SMC) (Issued)	Mar 14, 2008
2.8.2	ISM Safety Management Certificate (SMC) (Expires)	Dec 15, 2010
2.8.3	ISM Safety Management Certificate (SMC) (Last Intermediate)	Jul 06, 2008
2.9.1	Document of Compliance (DOC) (Issued)	Dec 11, 2008
2.9.2	Document of Compliance (DOC) (Expires)	Nov 11, 2009
2.9.3	Document of Compliance (DOC) (Endorsed)	
2.10.1	USCG Letter of Compliance (if applicable) (Issued)	Jan 23, 2008
2.10.2	USCG Letter of Compliance (if applicable) (Expires)	Jan 23, 2010
2.10.3	USCG Letter of Compliance (if applicable) (Last Annual)	
2.11.1	USCG Certificate of Compliance (COC/TVEL) (Issued)	Jan 23, 2008
2.11.2	USCG Certificate of Compliance (COC/TVEL) (Expires)	Jan 23, 2010
2.12	Minimum Safe Manning Certificate (MSM) (Issued)	Jul 11, 2005
2.13	Civil Liability Convention (CLC) 1969 Certificate (Issued)	
2.14	Civil Liability Convention (CLC) 1992 Certificate (Issued)	Jan 26, 2009
2.15	U.S. Certificate of Financial Responsibility (COFR) (Issued)	Jul 14, 2008
2.16	Certificate of Fitness (COF) Chemicals (issued)	
2.17	Certificate of Fitness (COF) Gas (issued)	
2.18	Noxious Liquids Substance Certificate (NLS) (Issued)	
2.19	Unattended Machinery Space Certificate (UMS) (Issued)	Sep 08, 2001
2.20	International Tonnage Certificate (ITC) (Issued)	Aug 24, 2005
2 DOCUMENTS		
2.21	IMO Safety of Life at Sea Convention (SOLAS 74)	Yes
2.22	IMO International Code of Signals (SOLAS V-Reg 21)	Yes
2.23	IMO International Convention for the Prevention of Pollution from Ships (MARPOL 73/78)	Yes
2.24	IMO Ships Routeing	Yes
2.25	IMO International Regulations For Preventing Collisions at Sea (COLREGS)	Yes
2.26	IMO Standards of Training, Certification and Watchkeeping (STCW Convention)	Yes
2.27	ICS Guide to Helicopter/Ship Operations	Yes
2.28	OCIMF/ICS/IAPH International Safety Guide for Oil Tankers and Terminals (ISGOTT)	Yes
2.29	OCIMF/ICS Clean Seas Guide for Oil Tankers	Yes
2.30	OCIMF/ICS Prevention of Oil Spillages Through Cargo Pumphoom Sea Valves	Yes
2.31	OCIMF/ICS Ship to Ship Transfer Guide (Petroleum)	Yes
2.32	OCIMF Recommendations for Oil Tanker Manifolds and Associated Equipment	Yes
2.33	OCIMF Mooring Equipment Guidelines	Yes
2.34	OCIMF Effective Mooring	Yes
2.35	USCG Regulations for Tankers (USCG 33 CFR/46 CFR)	Yes
2.36	Oil Transfer Procedures (USCG 33 CFR 155-156)	Yes
2.37	Operator's ISM Manuals	Yes
2.38	Is the publication IMO-Inert Gas Systems, or Ship Technical Operator's equivalent manual on board?	Yes
2.39	Is the publication IMO-Cow Systems, or Ship Technical Operator's equivalent manual on board?	Yes
2.40	ICS Bridge Procedures Guide	Yes
2.41	IAMSAR Vol.3	Yes
2.42	Nautical Institute Bridge Team Management	Yes
2.43	International Medical Guide for Ships(or equivalent)	Yes
2.44	International Ship Security Certificate (ISSC) (Is vessel fully compliant)	
3 FOR CHEMICAL TANKERS ONLY		
2.45	IMO Code for Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)	
2.46	IMO Index of Dangerous Chemicals Carried in Bulk	
2.47	ICS Tanker Safety Guide (Chemicals)	
2.48	IMO Code for Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (BCH Code)	
2.49	Chemical Data Guide (USCG 1990 CIM 16616.6A)	
2.50	Medical First Aid Guide for Use in Accidents involving Dangerous goods (MFAG)	
2.51	Procedures and Arrangements (P&A) Manual	

4 FOR GAS CARRIERS ONLY

2.52	IMO Code for Construction & Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code)
2.53	ICS Tanker Safety Guide (Liquefied Gas)
2.54	SIGTTO Liquefied Gas Handling Principles on Ships and in Terminals
2.55	SIGTTO Guide to Pressure Relief Valve Maintenance and Testing
2.56	ICS Ship to Ship Transfer Guide (Liquefied Gases)
2.57	IMO International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code)
2.58	IMO Code for Existing Ships Carrying Liquefied Gases in Bulk (EGC Code)

3 Chapter 3

1 CREW MANAGEMENT

3.1	Minimum manning required (officers)	8
3.1.1	Actual manning (officers)	9
3.1.2	List Nationality of Officers	Greek Master / Philippino officer s
3.1.3	Master employed by (Vessel Operator)	Yes
3.1.4	Officers employed by (Vessel Operator)	Yes
3.1.5	Ratings employed by (Vessel Operator)	Yes
3.1.6	Common language used (Vessel Operator)	ENGLISH
3.1.7	Manning agent #1 (Officers) - Full name	Manila Shipmanagement & Manning
3.1.7.1	Manning agent #1 (Officers) - Full address	Amorsolo House, Amorsolo 132, Legaspi City, Makati, Metro Manila, Philippines
3.1.7.2	Manning agent #1 (Officers) - Office telephone number	+632 892 4071
3.1.7.3	Manning agent #1 (Officers) - Office telex number	
3.1.7.4	Manning agent #1 (Officers) - Office fax number	+632 816 6993
3.1.7.5	Manning agent #1 (Officers) - Office Email address	email@manship.com
3.1.8	Are manning agent(s) wholly or partially owned by Operator?	Yes
3.1.9	If No, does Operator have selection rights?	
3.1.10	Does vessel's Operator maintain personnel files on officers assigned to his vessels?	Yes
3.1.11	Do officers regularly return to Operator's vessels?	Yes
3.2	Minimum manning required (ratings)	7
3.2.1	Actual manning (ratings)	17
3.2.2	List Nationality of Ratings	Philippines
3.2.3	Master employed by (Manning Agent)	No
3.2.4	Officers employed by (Manning Agent)	No
3.2.5	Ratings employed by (Manning Agent)	No
3.2.6	Common language used (Manning Agent)	
3.2.7	Manning agent #1 (Ratings) - Full name	Manila Shipmanagement & Manning
3.2.7.1	Manning agent #1 (Ratings) - Full address	
3.2.7.2	Manning agent #1 (Ratings) - Office telephone number	+ 632 892 4071
3.2.7.3	Manning agent #1 (Ratings) - Office telex number	
3.2.7.4	Manning agent #1 (Ratings) - Office fax number	+ 632 816 6993
3.2.7.5	Manning agent #1 (Ratings) - Office Email address	email@manship.com
3.2.8	Does vessel's Operator maintain personnel files on ratings assigned to his vessels?	Yes
3.2.9	Do ratings regularly return to Operator's vessels?	Yes

2 CONTINUITY

3.3	Do senior officers return to the same ship on a rotational basis?	Yes
3.4	Are senior officers rotated on ships of similar class within company fleet?	Yes
3.5	Are junior officers and ratings rotated on ships of similar class within company fleet?	Yes
3.6	If senior officers do not return to same ship on a rotational basis, are changes of Master, Chief Officer and Second Engineer organised to avoid a full change of officers at same time?	Yes

3 TRAINING

3.7	List Operator sponsored training courses available to officers (Bridge Management etc.)	- BRIDGE RESOURCE MANAGEMENT, - EXTENDED FIRE FIGHTING, - ADVANCED FIRE FIGHTING, - HAZARDOUS ATMOSPHERE MONITORING, - BRIDGE SIMULATION, - ENGINE SIMULATION
3.8	List Operator sponsored training courses available to ratings (Fire Fighting etc.)	FIRE FIGHTING , Tanker Saftey, Watch Keeping , Survival at Sea
3.9	Are Masters and Chief Engineers required to attend company office before and after each tour of duty?	Yes
3.10	Does operator hold regular training seminars ashore for officers?	Yes
3.11	Are training seminars provided on board for officers and ratings?	Yes
3.12	What courses, exceeding statutory requirements, are provided for senior officers?	- BRIDGE RESOURCE MANAGEMENT, - HAZARDOUS ATMOSPHERE MONITORING, - EXTENDED FIRE FIGHTING, - BRIDGE/ENGINE SIMULATION
3.13	What courses, exceeding statutory requirements, are provided for junior officers?	- ADVANCED FIRE FIGHTING, - HAZARDOUS ATMOSPHERE MONITORING
3.14	What courses, exceeding statutory requirements, are provided for ratings?	- ADVANCED FIRE FIGHTING, - VIDEOTEL

4 Chapter 4

1 NAVIGATION

4.1.1	Magnetic compass	Yes
4.1.2	Magnetic compass (Type)	TOCIMEC HS
4.1.3	Magnetic compass (Number of Units)	2
4.2.1	Gyro compass	Yes

4.2.2	Gyro compass (Type)	TOCIMEK TG6000
4.2.3	Gyro compass (Number of Units)	5
4.3.1	Gyro Autopilot	Yes
4.3.2	Gyro Autopilot (Type)	TOCIMEK PR-8567
4.3.3	Gyro Autopilot (Number of Units)	1
4.4.1.1	Radar 1	Yes
4.4.1.2	Radar (Type)	JRC, JMA - 6252-9
4.4.1.3	Radar 1 (Number of Units)	1
4.4.2.1	Radar 2	Yes
4.4.2.2	Radar (Type)	JRC JMA 8313-CA
4.4.2.3	Radar 2 (Number of Units)	1
4.4.3	Are radars gyro stabilised?	Yes
4.5	Is there at least one radar operating in the 9 Ghz frequency band (3cm/x band)?	Yes
4.6	Are the 3 GHz (10cm/S band) and 9Ghz (3cm / X band) radars fitted with an electronic switching unit?	Yes
4.7.1	Radar plotting equipment	Yes
4.7.2	Radar plotting equipment (Type)	JRC
4.7.3	Radar plotting equipment (Number of Units)	2
4.8.1	Are the Radars fitted with ARPA?	Yes
4.8.2	Type of ARPA	See radars
4.8.3	Number of ARPA Units installed	2
4.9.1	Depth sounder with recorder	Yes
4.9.2	Depth sounder with recorder (Type)	FURUNO FE680T
4.9.3	Depth sounder with recorder (Number of Units)	1
4.10.1	Speed/distance indicator	Yes
4.10.2	Speed/distance indicator (Type)	
4.10.3	Speed/distance indicator (Number of Units)	
4.11.1	Doppler log	Yes
4.11.2	Doppler log (Type)	
4.11.3	Doppler log (Number of Units)	
4.12.1	Docking approach doppler	Yes
4.12.2	Docking approach doppler (Type)	DAEYANG INSTR. CO LTD.
4.12.3	Docking approach doppler (Number of Units)	3
4.13.1	Rudder angle indicator	Yes
4.13.2	Rudder angle indicator (Type)	
4.13.3	Rudder angle indicator (Number of Units)	3
4.14.1	RPM indicator	Yes
4.14.2	RPM indicator (Type)	
4.14.3	RPM indicator (Number of Units)	3
4.15.1	Controllable pitch propeller indicator	No
4.15.2	Controllable pitch propeller indicator (Type)	
4.15.3	Controllable pitch propeller indicator (Number of Units)	
4.16.1	Bow thruster indicator	No
4.16.2	Bow thruster indicator (Type)	
4.16.3	Bow thruster indicator (Number of Units)	
4.17.1	Stern Thrust indicator	
4.17.2	Stern Thrust indicator (Type)	
4.17.3	Stern Thrust indicator (Number of Units)	
4.18.1	Rate of turn indicator	No
4.18.2	Rate of turn indicator (Type)	
4.18.3	Rate of turn indicator (Number of Units)	
4.19.1	Radio direction finder	No
4.19.2	Radio direction finder (Type)	
4.19.3	Radio direction finder (Number of Units)	0
4.20.1	Navtex receiver	Yes
4.20.2	Navtex receiver (Type)	
4.20.3	Navtex receiver (Number of Units)	1
4.21.1	Satellite navigation receiver	Yes
4.21.2	Satellite navigation receiver (Type)	GP-50MARK2
4.21.3	Satellite navigation receiver (Number of Units)	1
4.22.1	Is the ship fitted with GPS?	Yes
4.22.2	Type of GPS installed?	FURUNO GP-500
4.22.3	Number of GPS units installed?	1
4.23.1	Is the ship fitted with Differential GPS?	Yes
4.23.2	Type of Differential GPS installed?	
4.23.3	Number of Differential GPS units installed?	1
4.24.1	Is there an Electronic Chart Display?	Yes
4.24.2	Is there an Electronic Chart Display? (Type)	
4.24.3	Is there an Electronic Chart Display? (Number of Units)	
4.25	Is the Electronic Chart Display incorporated into an approved ECDIS ?	No
4.26.1	Integrated Navigation System (INS)	No
4.26.2	Integrated Navigation System (INS) (Type)	
4.26.3	Integrated Navigation System (INS) (Number of Units)	
4.27.1	Decca navigator	No
4.27.2	Decca navigator (Type)	
4.27.3	Decca navigator (Number of Units)	
4.28.1	Omega receiver	No
4.28.2	Omega receiver (Type)	
4.28.3	Omega receiver (Number of Units)	
4.29.1	Loran C receiver	No
4.29.2	Loran C receiver (Type)	
4.29.3	Loran C receiver (Number of Units)	
4.30.1	Course recorder	Yes
4.30.2	Course recorder (Type)	TOKIMEC CR-4

4.30.3	Course recorder (Number of Units)	1
4.31.1.1	Off - course alarm - gyro	Yes
4.31.1.2	Off - course alarm - gyro (Type)	TOKIMEC TG-6000
4.31.1.3	Off - course alarm - gyro (Number of Units)	1
4.31.2.1	Off - course alarm - magnetic	No
4.31.2.2	Off - course alarm - magnetic (Type)	
4.31.2.3	Off - course alarm - magnetic (Number of Units)	
4.32.1	Engine order printer	Yes
4.32.2	Engine order printer (Type)	OPU 8810, NOR CONTROL
4.32.3	Engine order printer (Number of Units)	1
4.33.1	Anemometer	Yes
4.33.2	Anemometer (Type)	DAEYANG INSTR. CO LTD.
4.33.3	Anemometer (Number of Units)	1
4.34.1	Weather fax	Yes
4.34.2	Weather fax (Type)	FURUNO, DFAX-FAX 214
4.34.3	Weather fax (Number of Units)	1
4.35	Does ship carry sextant(s)?	Yes
4.36	Does ship carry a signal lamp?	Yes
4.37	Is each bridge wing fitted with a rudder angle indicator?	Yes
4.38.1	Is each bridge wing fitted with a RPM indicator?	Yes
4.38.2	Is each bridge wing fitted with a gyro repeater?	Yes
4.39	If the ship is fitted with a controllable pitch propeller, are indicators fitted on the bridge wings?	No
4.40	Are steering motor controls and engine controls fitted on bridge wings?	No
4.41	Is bridge equipped with a 'Dead-Man' alarm or equipment?	Yes

5 Chapter 5

1 SAFETY MANAGEMENT

5.1	Is the vessel operated under a Quality Management System?	Yes
5.1.1	If Yes, what type of system? (ISO9002 or IMO Resolution A.741(18))?	
5.1.2	If Yes, who is the certifying body?	LLOYDS REGISTER
5.1.3	Date of vessel certification	Oct 16, 1997

2 HELICOPTERS

5.2	Can the ship comply with the ICS Helicopter Guidelines?	Yes
5.2.1	If Yes, state whether winching or landing area provided	Landing
5.2.2	What is diameter of circle provided?	16 Metres

3 FIRE FIGHTING EQUIPMENT & LIFE SAVING EQUIPMENT

5.3	Is a fixed foam firefighting system installed for the cargo area?	Yes
5.4	Type of foam on board	Multipurpose
5.5	Date of foam supply or last analysis certificate	Jul 30, 2004
5.6	What fixed fire fighting system is provided for the paint locker?	WATER/FOAM
5.7	What type of fire fighting system is fitted in pumproom(s)?	CO2
5.8	What type of fire fighting system is fitted in engine room (s)?	CO2
5.9	What type of fire fighting system is fitted in void spaces (s)?	N/A
5.10	Is a fixed dry powder firefighting system installed for the cargo area?	No
5.11	Is a fixed water spray firefighting system installed for the cargo area?	No
5.12	Is vessel equipped with recharging compressor for breathing apparatus?	Yes
5.13	What type of lifeboat is fitted?	Conventional
5.14	Is a dedicated rescue boat carried?	No
5.15	The type of rescue boat is: Rigid/inflated/ rigid-inflated	

6 Chapter 6

1 POLLUTION PREVENTION

6.1	Is ship fitted with a continuous deck edge fishplate enclosing the deck area?	Yes
6.1.1	If Yes, what is its minimum vertical height above the deck plating?	250 Millimetres
6.1.2	What is maximum vertical height above deck plating at aft thwartships coaming?	400 Millimetres
6.1.3	How far forward is this height maintained?	89 Metres
6.2	Is an athwartship deck coaming fitted adjacent to accommodation and service areas?	Yes
6.3	What is the height of the coaming?	400 Millimetres
6.4	Is spill containment fitted under the cargo manifold?	Yes
6.5	Is spill containment fitted under all bunker manifolds?	Yes
6.6	Is containment fitted under the bunker tank vents?	Yes
6.7	Is containment fitted around the deck machinery?	Yes
6.8	Specify type of scupper plugs	MECHANICAL
6.9	Are means provided for draining or removing oil from deck area /containment?	Yes
6.10.1	What type of sorbents are provided?	Yes
6.10.2	Are non-sparking hand scoops and shovels provided?	Yes
6.10.3	Disposal Containers	Yes
6.10.4	Are emulsifiers provided?	Yes
6.10.5	Non-sparking pumps	Yes
6.11	Is the cargo piping system fully segregated from the sea chest?	Yes
6.12	What type of sea valves that are fitted.	Butterfly
	If the ship is a pre-MARPOL tanker, is a cargo sea chest	

6.13	valve testing arrangement fitted which meets OCIMF recommendations?	Yes
6.14	Are dump valves fitted to slop tanks which can be left open with inert gas pressure on the tanks?	Yes
6.15	Are overboard discharges fitted with blanks or alternatively, is there a testing arrangement for the overboard valves?	Yes
6.16	Is there a discharge below the waterline for Annex II substances	No
6.17	Is there a discharge above the waterline for Annex I oily mixtures	Yes
6.18	Does Operator have policy to pressure test cargo piping at intervals no greater than 12 months?	Yes
6.18.1	If Yes, specify pressure	18 bar
6.19	Is garbage incinerator fitted?	Yes

2 OPA 90 REQUIREMENTS

6.20	Has the vessel Operator submitted a Vessel Spill Response Plan to the US Coast Guard which has been approved by official USCG letter?	Yes
6.21	Has a Geographic Specific Appendix been filed with the Captain of the Port for each Port Zone the vessel expects to enter or transit?	Yes
6.22	Has the vessel Operator deposited a letter with the US Coast Guard confirming that the Operator has signed a service contract with an oil spill removal organisation for responding to a 'worst case scenario'?	Yes

7 Chapter 7

1 STRUCTURAL CONDITION

7.1	Are cargo tanks coated?	Yes
7.1.1	If cargo tanks are coated, specify type of coating	EPOXY
7.1.2	If partially coated, specify which tanks are coated	ALL CARGO TANKS ARE COATED
7.1.3	If cargo tanks are coated, specify to what extent	FM BOTTOM(1) 3METERS - (2) 1METER
7.2	What is the condition of coating as determined by the criteria listed below?	Good
7.3	Are ballast tanks coated?	Yes
7.3.1	If ballast tanks are coated, specify type of coating	CTE
7.3.2	If ballast tanks are coated, specify to what extent	Whole Tank
7.3.3	What is the condition of ballast tank coating?	Good
7.4	Are there anodes in the cargo tanks?	No
7.5	Are there anodes in the ballast tanks?	Yes
7.6	What type of anodes are used?	ZINC
7.7	What percentage of anodes have wasted?	5 %
7.8	If anodes are aluminium, what is the height above tank bottom?	Millimetres
7.9	Is a formal programme in place for regular inspection of void spaces, cargo and ballast tanks?	Yes
7.10	Does ship have planned prevention maintenance programme (PPM)?	Yes
7.10.1	Is PPM manual (card system) or computerised?	Computerised
7.10.2	What areas of vessel does PPM cover?	All Ship
7.10.3	Is PPM Class approved?	Yes

8 Chapter 8

1 CARGO AND BALLAST HANDLING

8.1	Tank Plan
8.1.1	Tank Plan Diagram

2 DOUBLE HULL VESSELS

8.2	Is vessel fitted with centreline bulkhead in all cargo tanks?	Yes
8.2.1	If Yes, is bulkhead solid or perforated?	Solid
8.2.2	Is vessel fitted with any full breadth ballast tanks?	No
8.2.3	If Yes, how many ballast tanks are full breadth?	
8.2.4	Does vessel meet the IMO definition of 'double hull'?	Yes

3 CARGO TANK CAPACITIES

8.3	Cargo Tank Capacities At 98% Full (M3)	
8.3.1	Centre Tank Number 1 Capacity (98%)	Cu. Metres
8.3.2	Centre Tank Number 2 Capacity (98%)	Cu. Metres
8.3.3	Centre Tank Number 3 Capacity (98%)	Cu. Metres
8.3.4	Centre Tank Number 4 Capacity (98%)	Cu. Metres
8.3.5	Centre Tank Number 5 Capacity (98%)	Cu. Metres
8.3.6	Centre Tank Number 6 Capacity (98%)	Cu. Metres
8.3.7	Centre Tank Number 7 Capacity (98%)	Cu. Metres
8.3.8	Centre Tank Number 8 Capacity (98%)	Cu. Metres
8.3.9	Centre Tank Number 9 Capacity (98%)	Cu. Metres
8.3.10	Centre Tank Number 10 Capacity (98%)	Cu. Metres
8.3.11	Centre Tank Number 11 Capacity (98%)	Cu. Metres
8.3.12	Centre Tank Number 12 Capacity (98%)	Cu. Metres
8.3.13	Centre Tank Number 13 Capacity (98%)	Cu. Metres
8.3.14	Centre Tank Number 14 Capacity (98%)	Cu. Metres
8.3.15	Centre Tank Number 15 Capacity (98%)	Cu. Metres
8.3.16	Wings (P & S combined) Number 1 Capacity (98%)	22463.8 Cu. Metres
8.3.17	Wings (P & S combined) Number 2 Capacity (98%)	28397.8 Cu. Metres
8.3.18	Wings (P & S combined) Number 3 Capacity (98%)	28494.6 Cu. Metres
8.3.19	Wings (P & S combined) Number 4 Capacity (98%)	28494.6 Cu. Metres
8.3.20	Wings (P & S combined) Number 5 Capacity (98%)	28494.6 Cu. Metres
8.3.21	Wings (P & S combined) Number 6 Capacity (98%)	27074.5 Cu. Metres
8.3.22	Wings (P & S combined) Number 7 Capacity (98%)	Cu. Metres
8.3.23	Wings (P & S combined) Number 8 Capacity (98%)	Cu. Metres
8.3.24	Wings (P & S combined) Number 9 Capacity (98%)	Cu. Metres

8.3.25	Wings (P & S combined) Number 10 Capacity (98%)	Cu. Metres
8.3.26	Wings (P & S combined) Number 11 Capacity (98%)	Cu. Metres
8.3.27	Wings (P & S combined) Number 12 Capacity (98%)	Cu. Metres
8.3.28	Wings (P & S combined) Number 13 Capacity (98%)	Cu. Metres
8.3.29	Wings (P & S combined) Number 14 Capacity (98%)	Cu. Metres
8.3.30	Wings (P & S combined) Number 15 Capacity (98%)	Cu. Metres
8.4	Centre Tank Total Capacity (98%)	0 Cu. Metres
8.5	Slops 1st Tank Capacity (98%)	2355.6 Cu. Metres
8.5.1	Slops 2nd Tank Capacity (98%)	2353.8 Cu. Metres
8.6	Wings (P & S combined) Total Capacity (98%)	163420 Cu. Metres
8.7	Slops 3rd tank Capacity (98%)	0 Cu. Metres
8.7.1	Slops 4th tank Capacity (98%)	0 Cu. Metres
8.8	Centre Tank Total Capacity (98%)	4709.4 Cu. Metres
8.9	Wings (P & S combined) Total Capacity (98%)	163420 Cu. Metres
8.10	Grand Total Cubic Capacity (98%)	168129 Cu. Metres

4 BALLAST TANK CAPACITIES

8.11	Ballast Capacities At 100% Full (M3)	
8.11.1.1	Tank Number 1 (Identity)	FPT
8.11.1.2	Tank Number 1 (Capacity)	5575.5 Cu. Metres
8.11.2.1	Tank Number 2 (Identity)	1 PS
8.11.2.2	Tank Number 2 (Capacity)	8010.2 Cu. Metres
8.11.3.1	Tank Number 3 (Identity)	2 PS
8.11.3.2	Tank Number 3 (Capacity)	8136.6 Cu. Metres
8.11.4.1	Tank Number 4 (Identity)	3 PS
8.11.4.2	Tank Number 4 (Capacity)	8197 Cu. Metres
8.11.5.1	Tank Number 5 (Identity)	4 PS
8.11.5.2	Tank Number 5 (Capacity)	8197 Cu. Metres
8.11.6.1	Tank Number 6 (Identity)	5 PS
8.11.6.2	Tank Number 6 (Capacity)	8126.8 Cu. Metres
8.11.7.1	Tank Number 7 (Identity)	6 PS
8.11.7.2	Tank Number 7 (Capacity)	9497 Cu. Metres
8.11.8.1	Tank Number 8 (Identity)	APT
8.11.8.2	Tank Number 8 (Capacity)	914.4 Cu. Metres
8.11.9.1	Tank Number 9 (Identity)	
8.11.9.2	Tank Number 9 (Capacity)	Cu. Metres
8.11.10.1	Tank Number 10 (Identity)	
8.11.10.2	Tank Number 10 (Capacity)	Cu. Metres
8.11.11.1	Tank Number 11 (Identity)	
8.11.11.2	Tank Number 11 (Capacity)	Cu. Metres
8.11.12.1	Tank Number 12 (Identity)	
8.11.12.2	Tank Number 12 (Capacity)	Cu. Metres
8.11.13.1	Tank Number 13 (Identity)	
8.11.13.2	Tank Number 13 (Capacity)	Cu. Metres
8.11.14	Total Ballast Tank Capacities at 100% full	56654.5 Cu. Metres

5 BALLAST HANDLING

8.12	Ballast Handling	
8.12.1	If vessel is a Pre-MARPOL tanker, indicate by tank number, tanks usually designated for departure ballast.	NA
8.12.1.1	Tank Location	N/A
8.12.2	If vessel is a Pre-MARPOL tanker, indicate by tank number, tanks usually designated for arrival ballast.	N/A
8.12.2.1	Tank Location	N/A
8.12.3	Can vessel handle cargo and non-segregated ballast concurrently maintaining two valve segregation?	N/A
8.12.4	Can dirty ballast be safely loaded with gas transfer method? (simultaneous cargo discharge and loading of ballast into empty tanks)	N/A

6 IF VESSEL IS CBT TANKER WITH MANUAL

8.13	If the vessel is a CBT Tanker with Approved Manual:	
8.13.1	Which cargo tanks are indicated as CBT in the IOPP Certificate?	N/A
8.13.2	What is total capacity of CBT tanks?	0 Cu. Metres
8.13.3	Is the piping for CBT common with cargo piping or independent?	N/A

7 IF VESSEL IS SBT TANKER

8.14	If Vessel is SBT Tanker:	
8.14.1	What is total capacity of SBT?	56654.5 Cu. Metres
8.14.2	What percentage of summer deadweight can vessel maintain with SBT only?	38.27 %
8.14.3	Does vessel meet the requirements of Annex I Reg 18.2, previously Reg 13(2)?	Yes
8.14.4	Can segregated ballast be discharged through vessel's manifold?	Yes
8.14.5	Is vessel equipped with spool piece designed to connect ballast system to cargo system?	Yes
8.14.6	Do cargo lines pass through any dedicated or segregated ballast tanks?	No
8.14.7	If Yes, what type of expansion is fitted?	
8.14.8	Do ballast lines pass through any cargo tanks?	No
8.14.9	If Yes, what type of expansion is fitted?	N/A
8.14.10	Can vessel pump water ashore for line clearing?	Yes
8.14.11	If Yes, what is maximum attainable discharge rate?	3500 Cu. Metres/Hour
8.14.12	If Yes, what is maximum acceptable back pressure?	10 bar
8.14.13	Which cargo tanks are designated for heavy weather ballast as per IMO?	No.4P+S
8.14.13.1	Tank Location	Middleship aft

8 CARGO HANDLING

8.15	How many grades/products can vessel load/discharge with double valve segregation?	3
8.15.1	How many grades can vessel load/discharge using blank flanges?	3
8.15.2	If vessel is fitted with deepwell pumps and heat exchangers, can pumps and heat exchangers be bypassed during loading?	
8.15.3	Is there Oil Discharge Monitoring Equipment (ODME) fitted?	Yes
8.15.4	Is an Oil Discharge Monitoring System connected to the above waterline discharge?	Yes
8.15.5	If yes, is the Oil Discharge Monitoring System designed to automatically stop the discharge of effluent when its oil content exceeds permitted levels?	Yes
8.16	Is vessel equipped with class approved or certified stability computer?	Yes
8.16.1	Does this stability programme consider damaged stability conditions?	Yes
8.17	Is computer integrated with cargo system and equipped with alarm to monitor loading and discharging operations?	Yes
9	CARGO AND BALLAST PUMPING SYSTEMS	
8.18.1	Main Pump Number 1 (Identity)	MAIN PUMPS
8.18.2	Main Pump Number 1 (Number)	3
8.18.3	Main Pump Number 1 (Type)	Centrifugal
8.18.4	Main Pump Number 1 (Type of Prime Mover)	Steam
8.18.5	Main Pump Number 1 (Self Priming or Draining)	
8.18.6	Main Pump Number 1 (Capacity)	3500 Cu. Metres/Hour
8.18.7	Main Pump Number 1 (Normal Back Pressure)	12 bar
8.18.8	Main Pump Number 1 (At what Head?)	150 Metres
8.18.9	Main Pump Number 1 (Max RPM)	1450 rpm
8.19.1	Main Pump Number 2 (Identity)	
8.19.2	Main Pump Number 2 (Number)	
8.19.3	Main Pump Number 2 (Type)	
8.19.4	Main Pump Number 2 (Type of Prime Mover)	
8.19.5	Main Pump Number 2 (Self Priming or Draining)	
8.19.6	Main Pump Number 2 (Capacity)	Cu. Metres/Hour
8.19.7	Main Pump Number 2 (Normal Back Pressure)	bar
8.19.8	Main Pump Number 2 (At what Head?)	Metres
8.19.9	Main Pump Number 2 (Max RPM)	rpm
8.20.1	Main Pump Number 3 (Identity)	
8.20.2	Main Pump Number 3 (Number)	
8.20.3	Main Pump Number 3 (Type)	
8.20.4	Main Pump Number 3 (Type of Prime Mover)	
8.20.5	Main Pump Number 3 (Self Priming or Draining)	
8.20.6	Main Pump Number 3 (Capacity)	Cu. Metres/Hour
8.20.7	Main Pump Number 3 (Normal Back Pressure)	bar
8.20.8	Main Pump Number 3 (At what Head?)	Metres
8.20.9	Main Pump Number 3 (Max RPM)	rpm
8.21.1	Main Pump Number 4 (Identity)	
8.21.2	Main Pump Number 4 (Number)	
8.21.3	Main Pump Number 4 (Type)	
8.21.4	Main Pump Number 4 (Type of Prime Mover)	
8.21.5	Main Pump Number 4 (Self Priming or Draining)	
8.21.6	Main Pump Number 4 (Capacity)	Cu. Metres/Hour
8.21.7	Main Pump Number 4 (Normal Back Pressure)	bar
8.21.8	Main Pump Number 4 (At what Head?)	Metres
8.21.9	Main Pump Number 4 (Max RPM)	rpm
8.22.1	Main Pump Number 5 (Identity)	
8.22.2	Main Pump Number 5 (Number)	
8.22.3	Main Pump Number 5 (Type)	
8.22.4	Main Pump Number 5 (Type of Prime Mover)	
8.22.5	Main Pump Number 5 (Self Priming or Draining)	
8.22.6	Main Pump Number 5 (Capacity)	Cu. Metres/Hour
8.22.7	Main Pump Number 5 (Normal Back Pressure)	bar
8.22.8	Main Pump Number 5 (At what Head?)	Metres
8.22.9	Main Pump Number 5 (Max RPM)	rpm
8.23.1	Main Pump Number 6 (Identity)	
8.23.2	Main Pump Number 6 (Number)	
8.23.3	Main Pump Number 6 (Type)	
8.23.4	Main Pump Number 6 (Type of Prime Mover)	
8.23.5	Main Pump Number 6 (Self Priming or Draining)	
8.23.6	Main Pump Number 6 (Capacity)	Cu. Metres/Hour
8.23.7	Main Pump Number 6 (Normal Back Pressure)	bar
8.23.8	Main Pump Number 6 (At what Head?)	Metres
8.23.9	Main Pump Number 6 (Max RPM)	rpm
8.24.1	Main Pump Number 7 (Identity)	
8.24.2	Main Pump Number 7 (Number)	
8.24.3	Main Pump Number 7 (Type)	
8.24.4	Main Pump Number 7 (Type of Prime Mover)	
8.24.5	Main Pump Number 7 (Self Priming or Draining)	
8.24.6	Main Pump Number 7 (Capacity)	Cu. Metres/Hour
8.24.7	Main Pump Number 7 (Normal Back Pressure)	bar
8.24.8	Main Pump Number 7 (At what Head?)	Metres
8.24.9	Main Pump Number 7 (Max RPM)	rpm
8.25.1	Main Pump Number 8 (Identity)	
8.25.2	Main Pump Number 8 (Number)	
8.25.3	Main Pump Number 8 (Type)	

8.25.4	Main Pump Number 8 (Type of Prime Mover)	
8.25.5	Main Pump Number 8 (Self Priming or Draining)	
8.25.6	Main Pump Number 8 (Capacity)	Cu. Metres/Hour
8.25.7	Main Pump Number 8 (Normal Back Pressure)	bar
8.25.8	Main Pump Number 8 (At what Head?)	Metres
8.25.9	Main Pump Number 8 (Max RPM)	rpm
8.26.1	Booster Pumps (Number)	
8.26.2	Booster Pumps (Type)	
8.26.3	Booster Pumps (Type of Prime mover)	
8.26.4	Booster Pumps (Capacity) (water)	Cu. Metres/Hour
8.26.5	Booster Pumps (Normal Back Pressure)	bar
8.26.6	Booster Pumps (At what Head?)	Metres
8.26.7	Booster Pumps (RPM)	rpm
8.26.8	Booster Pumps (Max RPM)	rpm
8.27.1	Stripping (Number)	1
8.27.2	Stripping (Type)	Reciprocating
8.27.3	Stripping (Type of Prime Mover)	Steam
8.27.4	Stripping (Capacity)	350 Cu. Metres/Hour
8.27.5	Stripping (Normal Back Pressure)	12 bar
8.27.6	Stripping (At what Head?)	140 Metres
8.28.1	Eductors (Number)	1
8.28.2	Eductors (Type)	
8.28.3	Eductors (Type of Prime Mover)	
8.28.4	Eductors(Capacity)	600 Cu. Metres/Hour
8.28.5	Eductors(Normal Back Pressure)	bar
8.28.6	Eductors(At what Head?)	25 Metres
8.29.1	Ballast Handling Main Pump (Number)	2
8.29.2	Ballast Handling Main Pump (Type)	Centrifugal
8.29.3	Ballast Handling Main Pump (Type of Prime Mover)	Steam1 ELECTRIC 2
8.29.4	Ballast Handling Main Pump (Capacity)	2000 Cu. Metres/Hour
8.29.5	Ballast Handling Main Pump (Normal Back Pressure)	4 bar
8.29.6	Ballast Handling Main Pump (At what Head?)	30 Metres
8.29.7	Ballast Handling Main Pump (Max RPM)	1170 rpm
8.30.1	Ballast Handling Stripping (Number)	
8.30.2	Ballast Handling Stripping (Type)	
8.30.3	Ballast Handling Stripping (Type of Prime Mover)	
8.30.4	Ballast Handling Stripping (Capacity)	Cu. Metres/Hour
8.30.5	Ballast Handling Stripping (At what Head?)	bar
8.31.1	Ballast Handling Eductors (Number)	1
8.31.2	Ballast Handling Eductors (Type)	
8.31.3	Ballast Handling Eductors (Type of Prime Mover)	
8.31.4	Ballast Handling Eductors (Capacity)	500 Cu. Metres/Hour
8.31.5	Ballast Handling Eductors (At what Head?)	25 bar
8.32	Is vessel fitted with dedicated stripping lines and pumps?	No
8.33	State location of cargo pump emergency stops (i)	MANIFOLD
8.34	State location of cargo pump emergency stops (ii)	CCR
8.35	State location of cargo pump emergency stops (iii)	ECR
8.36	State location of cargo pump emergency stops (iv)	PUMPROOM BOTTOM
8.37	State location of cargo pump emergency stops (v)	PUMPROOM ENTRANCE
8.38.1	Are bearings of cargo pumps fitted with high temperature alarms?	Yes
8.38.2	Are bearings of cargo pumps fitted with high temperature trips?	Yes
8.39.1	Are bearings of ballast pumps fitted with high temperature alarms?	Yes
8.39.2	Are bearings of ballast pumps fitted with high temperature trips?	Yes
8.40.1	Are casings of cargo pumps fitted with high temperature alarms?	Yes
8.40.2	Are casings of cargo pumps fitted with high temperature trips?	Yes
8.41.1	Are casings of ballast pumps fitted with high temperature alarms?	Yes
8.41.2	Are casings of ballast pumps fitted with high temperature trips?	Yes
8.42.1	Are pumproom shaft glands through bulkheads fitted with high temperature alarms?	Yes
8.42.2	Are pumproom shaft glands through bulkheads fitted with high temperature trips?	Yes
8.43	What is the principal type of cargo valve?	Butterfly
8.44	What type of cargo valve actuator is fitted?	Hand & HYDRAULIC
10	CARGO CONTROL ROOM	
8.45	Is ship fitted with a Cargo Control Room? (CCR)	Yes
8.46	Can cargo and ballast pumps be controlled from the CCR?	Yes
8.47	Can all valves be controlled from the CCR?	Yes
8.48	Can tank innage/ullage be read from the CCR?	Yes
8.49	Is ODME readout fitted in the CCR?	Yes
8.50	Can the IGS be controlled from the CCR?	Yes
11	GAUGING AND SAMPLING	
8.51	Can vessel operate under closed loading conditions in accordance with Section 7.6.3 of ISGOTT?	Yes
8.51.1	What type of fixed closed tankgauging system is fitted?	Radar
8.52	Does tank gauging system have local reading?	Yes
8.52.1	Is gauging system certified and calibrated?	Yes
8.52.2	If it is a portable system does the sounding pipe extend to full tank depth?	Yes
8.53	Are bunker tanks fitted with a full depth gauging system?	Yes

8.54	Are high level alarms fitted to cargo tanks?	Yes
8.54.1	If Yes, indicate whether to all tanks or partial?	All
8.54.2	Are high level alarms independent of the gauging system?	Yes
8.55	Are bunker tanks fitted with high level alarms?	Yes
8.56	If Yes, are bunker tank high level alarms part of the primary tank gauging system?	Yes
8.57	Are closed sampling devices on board?	Yes
8.58	Are cargo tanks fitted with dipping points as per IMO Res 497 4.4.4?	Yes
8.59	If portable equipment for gauging uses vapour locks, are vapour locks calibrated?	Yes
8.59.1	If Yes, by whom are vapour locks calibrated?	A.B.S.
8.59.2	If Yes, by whom are vapour locks certified?	A.B.S.
8.60	If portable equipment used for gauging who is manufacturer?	MMC
8.60.1	If portable equipment used for gauging how many units are supplied?	3
8.60.2	What is the name of the manufacturer of the vapour locks?	
8.61	What is the nominal (internal) diameter of the vapour lock?	50 Millimetres
8.61.1	To what standard is the thread of the vapour lock manufactured?	
8.61.2	Can vapour lock be used for ullaging?	Yes
8.61.3	Can vapour lock be used for temperature?	Yes
8.61.4	Can vapour lock be used for interface?	Yes
8.61.5	Can vapour lock be used for cargo sampling?	Yes
8.61.6	If the vapour lock can be used for cargo sampling, what is the volume of the sample that can be drawn?	
8.62	Specify portable equipment for checking oil/water interface	MMC
8.63	Can cargo samples be taken at the manifold?	Yes
8.64	What is the means of taking cargo temperatures?	MMC

12 VAPOUR EMISSION CONTROL

8.65	Is a vapour return system (VRS) fitted?	Yes
8.65.6	If fitted, is vapour line return manifold in compliance with OCIMF Guidelines?	Yes
8.66	Is vessel certified for vapour transfer?	Yes
8.66.1	If yes, by which organisation?	ABS

13 VENTING

8.67	State what type of venting system is fitted	HV INDIV.
8.68	State maximum venting capacity	7800 Cu. Metres/Hour
8.69	State P/V valve opening pressure	1400 mm/wg
8.70	State P/V valve vacuum setting	350 mm/wg
8.71	Does each tank have isolating valve?	Yes
8.72	Are cargo tanks fitted with full flow P/V valves without isolating valves between the P/V valve and tank?	Yes
8.73	Is there a means of measuring the pressure in the vapour space in each cargo tank?	
8.74	Is venting through a mast riser?	Yes
8.75	Are mast risers fitted with high velocity vents?	Yes
8.76	If Yes, state opening pressure	1400 mm/wg
8.77	State vacuum setting of mast riser	700 mm/wg
8.78	State throughput capacity of mast riser.	10500 Cu. Metres/Hour
8.79	What is the maximum loading rate for homogenous cargo (loaded simultaneously through all manifolds)	14800 Cu. Metres/Hour

14 CARGO MANIFOLDS

8.80	Does vessel comply with the latest edition of the OCIMF 'Recommendations for Oil Tanker Manifolds and Associated Equipment'?	Yes
8.81	What type of valves are fitted at manifold?	Butterfly
8.82	If hydraulic valves fitted, what are closing times?	Seconds
8.83	What is the number of cargo manifold connections per side?	3
8.84	What is the size of cargo manifold connections?	400 Millimetres
8.85	Are pressure gauges fitted outboard of manifold valves?	Yes
8.86	What is the material of the manifold?	STEEL
8.87	Is the vessel fitted with a crossover at the manifold?	Yes
8.88	Are manifold cross-connections made by hard or flexible piping? (chemical carriers)	

15 BUNKER MANIFOLDS

8.89	What is the number of bunker connections per side?	2
8.90	What is the size of the bunker connection?	Millimetres

16 MANIFOLD ARRANGEMENT

8.91	Manifold Arrangement Diagram	
8.92	Bunker manifold to cargo manifold (A)	2200 Millimetres
8.93	Cargo manifold to cargo manifold (B)	2500 Millimetres
8.94	Cargo manifold to vapour return manifold (C)	2500 Millimetres
8.95	Manifolds to ship's rail (D)	4600 Millimetres
8.96	Spill tank grating to centre of manifold (E)	900 Millimetres
8.97	Main deck to centre of manifold (F)	1819 Millimetres
8.98	Main deck to top of rail (G)	1100 Millimetres
8.99	Top of rail to centre of manifold (H)	719 Millimetres
8.100	Manifold to ship side (J)	4800 Millimetres
8.101	What is the height of the manifold connections above the waterline at loaded (Summer Deadweight) condition?	8.597 Metres
8.102	What is the height of the manifold connections above the waterline in normal ballast?	17.16 Metres

8.103	What is the distance between the keel and centre of manifold?	24.619 Metres
8.104	Is vessel fitted with a stern manifold?	No
8.104.1	If stern manifold fitted, state size	Millimetres
8.105	Is vessel fitted with a bow manifold?	No
8.105.1	If bow manifold fitted, state size	Millimetres
8.106.1	Number of Reducers carried	5
8.106.2	From Diameter	400 Millimetres
8.106.3	To Diameter	300 Millimetres
8.107.1	Number of Reducers carried	4
8.107.2	From Diameter	400 Millimetres
8.107.3	To Diameter	250 Millimetres
8.108.1	Number of Reducers carried	3
8.108.2	From Diameter	400 Millimetres
8.108.3	To Diameter	200 Millimetres
8.109.1	Number of Reducers carried	1
8.109.2	From Diameter	200 Millimetres
8.109.3	To Diameter	300 Millimetres
8.110.1	Number of Reducers carried	1
8.110.2	From Diameter	200 Millimetres
8.110.3	To Diameter	250 Millimetres
8.111	To what standard are manifold reducers manufactured? (ANSI, ASA, BSI, DIN, JIS, etc.)	ANSI

17 GAS MONITORING

8.112	Is the vessel fitted with a fixed system to continuously monitor for flammable atmospheres?	Yes
8.112.1	What spaces are monitored?	FPT-WBT-PROOM
8.113	Where are sensors/sampling points located in pumproom?	2 POINTS
8.113.1	Are sensors/sampling points calibrated/tested?	Yes
8.113.2	Who is responsible for testing sensors/sampling points?	CH.OFF.
8.114.1	Portable and Personal gas detection equipment carried Item Number 1 (Name)	EXPLOSIMETERS (RIKEN FINE GP-204 / MSA 2A)
8.114.2	Portable and Personal gas detection equipment carried Item Number 1 (Number of units)	2
8.115.1	Portable and Personal gas detection equipment carried Item Number 2 (Name)	GASCOPE (COMBUSTIBLE GAS INDICATOR RIKEN / MSA)
8.115.2	Portable and Personal gas detection equipment carried Item Number 2 (Number of units)	2
8.116.1	Portable and Personal gas detection equipment carried Item Number 3 (Name)	DRAGER (MULTI GAS DETECTOR)
8.116.2	Portable and Personal gas detection equipment carried Item Number 3 (Number of units)	1
8.117.1	Portable and Personal gas detection equipment carried Item Number 4 (Name)	OXYZEN ANALYZER (MSA 246RA / OX-1 / ODM II)
8.117.2	Portable and Personal gas detection equipment carried Item Number 4 (Number of units)	3
8.118.1	Portable and Personal gas detection equipment carried Item Number 5 (Name)	H2S MONITOR (PERONAL) RIKEN HEIKI HS-87
8.118.2	Portable and Personal gas detection equipment carried Item Number 5 (Number of units)	3
8.119.1	Portable and Personal gas detection equipment carried Item Number 6 (Name)	
8.119.2	Portable and Personal gas detection equipment carried Item Number 6 (Number of units)	

18 CARGO HEATING

8.120	Are there coils in cargo tanks?	Yes
8.121	State the Number of independent sets of coils per tank	3
8.122	Are all tanks coiled?	Yes
8.123	What is the Height of coils above tank bottom?	150 Millimetres
8.124.1	Heating surface per tank	170 Square Meters
8.124.2	Heating surface per tank volume ratio	0.01
8.125	Are heating coils welded or coupled?	Welded
8.126	Are heat exchangers external to cargo tanks?	No
8.127	Are there external ducts?	No
8.128	What is the Material of heating coils?	Other
8.129	Inlet heating medium to coils	Steam
8.130.1	With Sea temperature	5 Degrees Celsius
8.130.2	With air temperature	2 Degrees Celsius
8.131	Heating agent	
8.132	Number of heaters	
8.133.1	Able to raise temperature from	44 Degrees Celsius
8.133.2	Able to raise temperature to	66 Degrees Celsius
8.133.3	Time taken to raise temperature	96 Hours
8.134	Total capacity of boilers	0 Kcal

9 Chapter 9

1 INERT GAS AND CRUDE OIL WASHING

9.1	Is an inert gas system (IGS) fitted?	Yes
9.2	Is a P/V breaker fitted?	Yes
9.3	Is IGS supplied by flue gas, inert gas (IG) generator and/or nitrogen?	Flue Gas
9.4	Are fixed O2 alarms fitted in inert gas generating spaces?	Yes
9.5	What is the capacity of the IGS?	13200 Cu. Metres/Hour
9.6	How many fans does it have?	2
9.7	What is the total combined fan capacity?	13200 Cu. Metres/Hour
9.8	Is a top-up IG generator fitted?	Yes
9.8.1	If Yes, what is its capacity?	500 Cu. Metres/Hour
9.9	Is an IGS operating manual on board?	No
9.10	What type of deck seal is fitted?	Wet

9.11	How many segregations does the IGS have?	1
9.12	What method is used to isolate individual tanks?	LOCAL VALVES
9.13	What type of non-return valve is fitted?	MECHANICAL
9.14	What means of protection is fitted, other than minimum thermal variation P/V valves, if tanks can be individually isolated from the IG ?	HV IND. P/V VALVE
9.15	If ship has double hull or sides, are facilities available to inert ballast tanks and other void spaces?	Yes
9.15.1	Can these tanks/spaces be purged with air?	Yes
9.16	Where is the location of the emergency IGS connection?	Midship P+S side
9.16.1	What is the size of the emergency IGS connection?	300 Millimetres
9.17	Is a Crude Oil Washing (COW) installation fitted?	Yes
9.18	Are Crude Oil Washing (COW) drive units fixed or portable?	Fixed
9.19	Are Crude Oil Washing (COW) drive units programmable?	Yes
9.20	Is vessel capable of performing Crude Oil Washing (COW) at the same time as cargo discharge?	Yes
9.21	Is there an approved Crude Oil Washing (COW) Manual on board?	Yes
9.22	What is the working pressure of the Crude Oil Washing (COW) lines?	10 bar

10 Chapter 10

1 MOORING

10.1	Does the vessel comply with the latest edition of OCIMF Mooring Equipment Guidelines?	Yes
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2 MOORING WIRES (ON DRUMS)

10.2.1	Mooring Wires (On Drums) Forecastle (Number)	6
10.2.2	Mooring Wires (On Drums) Forecastle (Diameter)	38 Millimetres
10.2.3	Mooring Wires (On Drums) Forecastle (Material)	galv. w.steelcore
10.2.4	Mooring Wires (On Drums) Forecastle (Length)	220 Metres
10.2.5	Mooring Wires (On Drums) Forecastle (Breaking Strength)	85 Metric Tonnes
10.3.1	Mooring Wires (On Drums) Forward Main Deck (Number)	2
10.3.2	Mooring Wires (On Drums) Forward Main Deck (Diameter)	38 Millimetres
10.3.3	Mooring Wires (On Drums) Forward Main Deck (Material)	galv. w.steelcore
10.3.4	Mooring Wires (On Drums) Forward Main Deck (Length)	220 Metres
10.3.5	Mooring Wires (On Drums) Forward Main Deck (Breaking Strength)	85 Metric Tonnes
10.4.1	Mooring Wires (On Drums) Aft Main Deck (Number)	2
10.4.2	Mooring Wires (On Drums) Aft Main Deck (Diameter)	38 Millimetres
10.4.3	Mooring Wires (On Drums) Aft Main Deck (Material)	galv. w.steelcore
10.4.4	Mooring Wires (On Drums) Aft Main Deck (Length)	270 Metres
10.4.5	Mooring Wires (On Drums) Aft Main Deck (Breaking Strength)	85 Metric Tonnes
10.5.1	Mooring Wires (On Drums) Poop (Number)	6
10.5.2	Mooring Wires (On Drums) Poop (Diameter)	38 Millimetres
10.5.3	Mooring Wires (On Drums) Poop (Material)	galg. w.steelcore
10.5.4	Mooring Wires (On Drums) Poop (Length)	220 Metres
10.5.5	Mooring Wires (On Drums) Poop (Breaking Strength)	85 Metric Tonnes

3 MOORING WIRE TAILS

10.6	Type of shackle	
10.7.1	Mooring Wire Tails Forecastle (Number)	6
10.7.2	Mooring Wire Tails Forecastle (Diameter)	85 Millimetres
10.7.3	Mooring Wire Tails Forecastle (Material)	polyamide
10.7.4	Mooring Wire Tails Forecastle (Length)	11 Metres
10.7.5	Mooring Wire Tails Forecastle (Breaking Strength)	117 Metric Tonnes
10.8.1	Mooring Wire Tails Forward Main Deck (Number)	2
10.8.2	Mooring Wire Tails Forward Main Deck (Diameter)	85 Millimetres
10.8.3	Mooring Wire Tails Forward Main Deck (Material)	polyamide
10.8.4	Mooring Wire Tails Forward Main Deck (Length)	11 Metres
10.8.5	Mooring Wire Tails Forward Main Deck (Breaking Strength)	117 Metric Tonnes
10.9.1	Mooring Wire Tails Aft Main Deck (Number)	2
10.9.2	Mooring Wire Tails Aft Main Deck (Diameter)	85 Millimetres
10.9.3	Mooring Wire Tails Aft Main Deck (Material)	polyamide
10.9.4	Mooring Wire Tails Aft Main Deck (Length)	11 Metres
10.9.5	Mooring Wire Tails Aft Main Deck (Breaking Strength)	117 Metric Tonnes
10.10.1	Mooring Wire Tails Poop (Number)	6
10.10.2	Mooring Wire Tails Poop (Diameter)	85 Millimetres
10.10.3	Mooring Wire Tails Poop (Material)	polyamide
10.10.4	Mooring Wire Tails Poop (Length)	11 Metres
10.10.5	Mooring Wire Tails Poop (Breaking Strength)	117 Metric Tonnes

4 MOORING ROPES (ON DRUMS)

10.11.1	Mooring Ropes (On Drums) Forecastle (Number)	
10.11.2	Mooring Ropes (On Drums) Forecastle (Diameter)	Millimetres
10.11.3	Mooring Ropes (On Drums) Forecastle (Material)	
10.11.4	Mooring Ropes (On Drums) Forecastle (Length)	Metres
10.11.5	Mooring Ropes (On Drums) Forecastle (Breaking Strength)	Metric Tonnes
10.12.1	Mooring Ropes (On Drums) Forward Main Deck (Number)	
10.12.2	Mooring Ropes (On Drums) Forward Main Deck (Diameter)	Millimetres
10.12.3	Mooring Ropes (On Drums) Forward Main Deck (Material)	
10.12.4	Mooring Ropes (On Drums) Forward Main Deck (Length)	Metres
10.12.5	Mooring Ropes (On Drums) Forward Main Deck (Breaking Strength)	Metric Tonnes
10.13.1	Mooring Ropes (On Drums) Aft Main Deck (Number)	
10.13.2	Mooring Ropes (On Drums) Aft Main Deck (Diameter)	Millimetres
10.13.3	Mooring Ropes (On Drums) Aft Main Deck (Material)	
10.13.4	Mooring Ropes (On Drums) Aft Main Deck (Length)	Metres

10.13.5	Mooring Ropes (On Drums) Aft Main Deck (Breaking Strength)	Metric Tonnes
10.14.1	Mooring Ropes (On Drums) Poop (Number)	
10.14.2	Mooring Ropes (On Drums) Poop (Diameter)	Millimetres
10.14.3	Mooring Ropes (On Drums) Poop (Material)	
10.14.4	Mooring Ropes (On Drums) Poop (Length)	Metres
10.14.5	Mooring Ropes (On Drums) Poop (Breaking Strength)	Metric Tonnes
5	OTHER MOORING LINES	
10.15.1	Other Mooring Lines Forecastle (Number)	2
10.15.2	Other Mooring Lines Forecastle (Diameter)	72 Millimetres
10.15.3	Other Mooring Lines Forecastle (Material)	polysteel
10.15.4	Other Mooring Lines Forecastle (Length)	220 Metres
10.15.5	Other Mooring Lines Forecastle (Breaking Strength)	89 Metric Tonnes
10.16.1	Other Mooring Lines Forward Main Deck (Number)	
10.16.2	Other Mooring Lines Forward Main Deck (Diameter)	Millimetres
10.16.3	Other Mooring Lines Forward Main Deck (Material)	
10.16.4	Other Mooring Lines Forward Main Deck (Length)	Metres
10.16.5	Other Mooring Lines Forward Main Deck (Breaking Strength)	Metric Tonnes
10.17.1	Other Mooring Lines Aft Main Deck (Number)	
10.17.2	Other Mooring Lines Aft Main Deck (Diameter)	Millimetres
10.17.3	Other Mooring Lines Aft Main Deck (Material)	
10.17.4	Other Mooring Lines Aft Main Deck (Length)	Metres
10.17.5	Other Mooring Lines Aft Main Deck (Breaking Strength)	Metric Tonnes
10.18.1	Other Mooring Lines Poop (Number)	2
10.18.2	Other Mooring Lines Poop (Diameter)	72 Millimetres
10.18.3	Other Mooring Lines Poop (Material)	polysteel
10.18.4	Other Mooring Lines Poop (Length)	220 Metres
10.18.5	Other Mooring Lines Poop (Breaking Strength)	89 Metric Tonnes
6	SPARE MOORING WIRES	
10.19.1	Spare Mooring Wires (Identity 1)	FORECASTLE
10.19.2	Spare Mooring Wires (Identity 1) - Number	2
10.19.3	Spare Mooring Wires (Identity 1) - Diameter	38 Millimetres
10.19.4	Spare Mooring Wires (Identity 1) - Material	galv.steel core
10.19.5	Spare Mooring Wires (Identity 1) - Length	220 Metres
10.19.6	Spare Mooring Wires (Identity 1) - Breaking Strength	85 Metric Tonnes
10.19.1.1	Spare Mooring Wires (Identity 2)	FORWARD MAIN DECK
10.19.1.2	Spare Mooring Wires (Identity 2) - Number	
10.19.1.3	Spare Mooring Wires (Identity 2) - Diameter	Millimetres
10.19.1.4	Spare Mooring Wires (Identity 2) - Material	
10.19.1.5	Spare Mooring Wires (Identity 2) - Length	Metres
10.19.1.6	Spare Mooring Wires (Identity 2) - Breaking Strength	Metric Tonnes
7	SPARE MOORING ROPES	
10.20.1	Spare Mooring Ropes (Identity 1)	
10.20.2	Spare Mooring Ropes (Identity 1) - Number	2
10.20.3	Spare Mooring Ropes (Identity 1) - Diameter	72 Millimetres
10.20.4	Spare Mooring Ropes (Identity 1) - Material	polysteel
10.20.5	Spare Mooring Ropes (Identity 1) - Length	220 Metres
10.20.6	Spare Mooring Ropes (Identity 1) - Breaking Strength	89 Metric Tonnes
10.20.1.1	Spare Mooring Ropes (Identity 2)	
10.20.1.2	Spare Mooring Ropes (Identity 2) - Number	
10.20.1.3	Spare Mooring Ropes (Identity 2) - Diameter	Millimetres
10.20.1.4	Spare Mooring Ropes (Identity 2) - Material	
10.20.1.5	Spare Mooring Ropes (Identity 2) - Length	Metres
10.20.1.6	Spare Mooring Ropes (Identity 2) - Breaking Strength	Metric Tonnes
8	SPARE MOORING TAILS	
10.21.1	Spare Mooring Tails (Identity 1)	
10.21.2	Spare Mooring Tails (Identity 1) - Number	4
10.21.3	Spare Mooring Tails (Identity 1) - Diameter	85 Millimetres
10.21.4	Spare Mooring Tails (Identity 1) - Material	polysteel
10.21.5	Spare Mooring Tails (Identity 1) - Length	11 Metres
10.21.6	Spare Mooring Tails (Identity 1) - Breaking Strength	117 Metric Tonnes
10.21.1.1	Spare Mooring Tails (Identity 2)	
10.21.1.2	Spare Mooring Tails (Identity 2) - Number	0
10.21.1.3	Spare Mooring Tails (Identity 2) - Diameter	Millimetres
10.21.1.4	Spare Mooring Tails (Identity 2) - Material	
10.21.1.5	Spare Mooring Tails (Identity 2) - Length	Metres
10.21.1.6	Spare Mooring Tails (Identity 2) - Breaking Strength	Metric Tonnes
9	MOORING WINCHES	
10.22.1	Winches Forecastle (Number)	3
10.22.2	Winches Forecastle (Single Drum or Double Drums)	Double Drums
10.22.3	Winches Forecastle (Split Drums Y/N)	Yes
10.22.4	Winches Forecastle (Motive Power)	Hydraulic
10.22.5	Winches Forecastle (Heaving Power)	Metric Tonnes
10.22.6	Winches Forecastle (Brake Capacity)	50 Metric Tonnes
10.22.7	Winches Forecastle (Hauling Speed)	Metres/Minute
10.23.1	Winches Forward Main Deck (Number)	1
10.23.2	Winches Forward Main Deck (Single Drum or Double Drums)	Double Drums
10.23.3	Winches Forward Main Deck (Split Drums Y/N)	Yes
10.23.4	Winches Forward Main Deck (Motive Power)	Hydraulic
10.23.5	Winches Forward Main Deck (Heaving Power)	20 Metric Tonnes
10.23.6	Winches Forward Main Deck (Brake Capacity)	50 Metric Tonnes
10.23.7	Winches Forward Main Deck (Hauling Speed)	15 Metres/Minute
10.24.1	Winches Aft Main Deck (Number)	1

10.24.2	Winches Aft Main Deck (Single Drum or Double Drums)	Double Drums
10.24.3	Winches Aft Main Deck (Split Drums Y/N)	Yes
10.24.4	Winches Aft Main Deck (Motive Power)	Hydraulic
10.24.5	Winches Aft Main Deck (Heaving Power)	20 Metric Tonnes
10.24.6	Winches Aft Main Deck (Brake Capacity)	50 Metric Tonnes
10.24.7	Winches Aft Main Deck (Hauling Speed)	15 Metres/Minute
10.25.1	Winches Poop (Number)	3
10.25.2	Winches Poop (Single Drum or Double Drums)	Double Drums
10.25.3	Winches Poop (Split Drums Y/N)	Yes
10.25.4	Winches Poop (Motive Power)	Hydraulic
10.25.5	Winches Poop (Heaving Power)	20 Metric Tonnes
10.25.6	Winches Poop (Brake Capacity)	50 Metric Tonnes
10.25.7	Winches Poop (Hauling Speed)	15 Metres/Minute
10.26	What type of winch brakes are fitted?	MECHANICAL
10.27	Is brake testing equipment on board?	Yes
10.28	When were the brakes last tested?	Apr 12, 2004

10 MOORING BITS

10.29	How many sets of mooring bitts are fitted on forecastle?	4
10.30	How many sets of mooring bitts are fitted on forward main deck?	2
10.31	How many sets of mooring bitts are fitted on aft main deck?	2
10.32	How many sets of mooring bitts are fitted on poop deck?	4
10.33	Distance of mooring chock for breast/spring lines forward of center of manifold	116 Metres
10.34	Distance of mooring chock for breast/spring lines aft of center of manifold	124 Metres

11 ANCHORS AND WINDLASS

10.35	What is the motive power of the windlass?	Hydraulic
10.36	What is the cable diameter?	97 Millimetres
10.37	Number of shackles - port cable?	14
10.38	Number of shackles - starboard cable?	13
10.39	Are bitter end connections to both cables capable of being slipped?	Yes

12 EMERGENCY TOWING ARRANGEMNTS

10.40	Is the vessel fitted with an Emergency Towing Arrangement?	Yes
10.41.1	Type of Emergency Towing system (Forward)	AKD Tongue type
10.41.2	Type of Emergency Towing system (Aft)	ETS-200 D
10.42.1	Safe Working Load (SWL) of Emergency Towing system (Forward)	400 Metric Tonnes
10.42.2	Safe Working Load (SWL) of Emergency Towing system (Aft)	200 Metric Tonnes
10.43.1	Is pick-up gear provided? (Forward)	
10.43.2	Is pick-up gear provided? (Aft)	Yes
10.44.1	Emergency Towing pennant length (Forward)	Metres
10.44.2	Emergency Towing pennant length (Aft)	100 Metres
10.45.1	Emergency Towing pennant diameter (Forward)	Millimetres
10.45.2	Emergency Towing pennant diameter (Aft)	77 Millimetres
10.46.1	Type of strong point (Smit bracket etc) (Forward)	SMIT
10.46.2	Type of strong point (Smit bracket etc) (Aft)	SMIT
10.47.1	Chafing chain size (Forward)	76 Millimetres
10.47.2	Chafing chain size (Aft)	77 Millimetres
10.48.1	Fairlead size (in format ABCmm x XYZmm) (Forward)	600 Millimetres
10.48.2	Fairlead size (in format ABCmm x XYZmm) (Aft)	600 Millimetres
10.49.1	Is pedestal roller fitted? (Forward)	
10.49.2	Is pedestal roller fitted? (Aft)	Yes
10.50.1	Is vessel provided with towing wire? (Forward)	
10.50.2	Is vessel provided with towing wire? (Aft)	No
10.50.1.1	What is the diameter of towing wire? (Forward)	Millimetres
10.50.1.2	What is the diameter of towing wire? (Aft)	Millimetres
10.50.2.1	What is the length of towing wire? (Forward)	Metres
10.50.2.2	What is the length of towing wire? (Aft)	Metres
10.52	What is the number of bitts in the bow area?	4
10.53	What is the height of the bitts in the bow area?	760 Millimetres
10.54	What is the safe working load of the bitts in the bow area?	80 Metric Tonnes
10.55	What is the distance between bow fairleads and nearest bitts?	4000 Millimetres
10.56	Is the bow area clear of any obstructions which would hamper towing connections?	Yes

13 ESCORT TUG

10.57	SWL of closed chock on stern	200 Metric Tonnes
10.58	SWL of bollard on poopdeck suitable for escort tug	80 Metric Tonnes
10.59	Are stern chock and bollard capable of towing astern to 90 degrees?	Yes

14 SINGLE POINT MOORING (SPM) EQUIPMENT

10.60	Does vessel comply with the latest edition of OCIMF 'Recommendations for Equipment Employed in the Mooring of Vessels at Single Point Moorings (SPM)'?	Yes
10.61	Is vessel fitted with chain stopper(s)?	Yes
10.61.1	How many chain stopper(s) are fitted?	2
10.61.2	State type of chain stopper(s) fitted?	2 X 200 T / TONGUE
10.61.3	Safe Working Load (SWL) of chain stopper(s)?	200 Metric Tonnes
10.62	What is the maximum size chain diameter the bow stopper (s) can handle?	78 Millimetres
10.63	Are closed fairleads of OCIMF recommended size (600mm x 450mm)?	Yes

10.63.1	If not, give details of size (in format ABCmm x XYZmm)	
10.64	If two forward bow fairleads are fitted give distance between them	2000 Millimetres
10.65	What is the distance between the bow fairlead and stopper/bracket?	3500 Millimetres
10.66	What is the distance from the stopper bracket to roller lead/winch drum?	4.28 Metres
10.67	Is there a direct lead from the bow stopper to the winch drum (not the warping end)?	Yes
10.68	Is the winch storage drum capable of safely accommodating 150m X 80mm fibre pick up rope?	Yes
10.69	Is the winch storage drum capable of safely accommodating 200m X 80mm fibre pick up rope?	

15 BOW MOORING ARRANGEMENT DIAGRAM

10.70 Bow Mooring Arrangement Diagram

16 MANIFOLD ARRANGEMENT

10.71	Manifold Arrangement Diagram	
10.72	Distance K end of drip tray to center line of deck cleat	3400 Millimetres
10.73	Distance L spill tray to centre line of bollard	430 Millimetres
10.74	Distance M length of bollard	600 Millimetres

17 LIFTING EQUIPMENT

10.75	How many derricks does the vessel have?	0
10.75.1	What is the safe working load (SWL) of the derricks?	0 Metric Tonnes
10.75.2	Date derricks last tested	
10.76	If cranes are fitted, how many?	2
10.76.1	What is the safe working load (SWL) of the cranes?	15 Metric Tonnes
10.76.2	Date cranes last tested	May 06, 2004
10.77	Is Safe Working Load (SWL) clearly marked on all lifting equipment?	Yes
10.78	Do the vessel's derricks or cranes reach at least 1 metre outboard of rail?	Yes
10.79	How many bits are there on each side of the manifold for tying off submarine hoses?	3

18 OTHER EQUIPMENT

10.80	Are accommodation ladders arranged to face aft when rigged?	Yes
10.81	Does vessel have Suez Canal boat davits?	Yes
10.82	Does vessel have Suez Canal projector?	Yes

11 Chapter 11

1 COMMUNICATIONS AND ELECTRONICS

11.1	Is vessel certified for GMDSS?	Yes
11.2	What GMDSS areas is the vessel classed for? A1 A2 A3 A4	
11.3	Transponder (SART)	Yes
11.4	EPIRB	Yes
11.5	How many VHF radios are fitted on the bridge?	2
11.6	Is vessel fitted with VHF in the cargo control room (CCR)?	Yes
11.7	Is the CCR connected to the vessel's internal communication system?	Yes
11.8	How many intrinsically safe walkie talkies are provided for cargo handling?	7
11.9	Is vessel fitted with an INMARSAT satellite communications system?	Yes
11.10	Does vessel carry at least three survival craft two-way radio telephones?	Yes
11.11	List any other communications equipment carried:	Iridium phone, MARICOM - MINI-M
11.12	Can vessel transmit the helicopter homing signal on 410 KHz?	No

12 Chapter 12

1 MAIN PROPULSION

12.1	Means of main propulsion	Motor
12.1.1	If motor state whether two stroke or four stroke	2 Stroke
12.1.2	If four stroke, state how many engines fitted	
12.2	Does vessel have single or twin propellers?	Single
12.3	Is vessel fitted with fixed or controllable pitch propeller(s)?	
12.4	How many boilers are fitted?	2
12.4.1	What is rated output of boilers?	40 Metric Tonnes/Hour
12.5	What type of fuel is used for main propulsion?	IFO 380
12.6	Are pressurised fuel pipes double sheathed?	Yes
12.7	When moored at SBM, is main engine capable of being run astern at low revolutions for extended periods (up to 24 hours continuously)?	Yes
12.8	Is vessel capable of maintaining speed below 5 Knots?	Yes
12.9	Is vessel fitted for Unmanned Machinery Space (UMS) operation?	Yes
12.9.1	Is vessel operated in UMS mode?	Yes
2	THRUSTERS	
12.10	Is vessel fitted with a bow thruster?	
12.10.1	If vessel fitted with a bow thruster, give Brake Horse Power	bhp
12.11	Is vessel fitted with a stern thruster?	
12.11.1	If vessel fitted with a stern thruster, give Brake Horse Power	0 bhp
12.12	Is vessel fitted with high angle rudder?	
12.12.1	If vessel fitted with high angle rudder, what type	
3	GENERATORS	
12.13	How many power generators are fitted?	3
12.13.1	Indicate type of power generator(s)	Other (Specify)YAHMAR T260L-SX 900 CW

12.14	What type of fuel is used in the generating plant?	IFO 380
12.15	Is vessel fitted with emergency generator or batteries?	Emergency generator

4 MAIN ENGINE AIR START COMPRESSORS

12.16	Number of main engine start compressors	3
12.17	Operating pressure	30 bar
12.18	Motive power of emergency compressor	Cu. Metres/Hour

5 BUNKERS

12.19.1	Fuel Oil (Tank Name)	NO. 1 (P)
12.19.2	Fuel Oil (Capacity)	536.5 Cu. Metres
12.19.3	Diesel Oil (Tank Name)	DO STR
12.19.4	Diesel Oil (Capacity)	502.6 Cu. Metres
12.19.5	Gas Oil (Tank Name)	
12.19.6	Gas Oil (Capacity)	Cu. Metres
12.20.1	Fuel Oil (Tank Name)	NO. 1 (S)
12.20.2	Fuel Oil (Capacity)	536.5 Cu. Metres
12.20.3	Diesel Oil (Tank Name)	DO SERV
12.20.4	Diesel Oil (Capacity)	21.5 Cu. Metres
12.20.5	Gas Oil (Tank Name)	
12.20.6	Gas Oil (Capacity)	Cu. Metres
12.21.1	Fuel Oil (Tank Name)	NO. 2 (P)
12.21.2	Fuel Oil (Capacity)	1873.3 Cu. Metres
12.21.3	Diesel Oil (Tank Name)	
12.21.4	Diesel Oil (Capacity)	Cu. Metres
12.21.5	Gas Oil (Tank Name)	
12.21.6	Gas Oil (Capacity)	Cu. Metres
12.22.1	Fuel Oil (Tank Name)	NO. 2 (S)
12.22.2	Fuel Oil (Capacity)	1115.3 Cu. Metres
12.22.3	Diesel Oil (Tank Name)	
12.22.4	Diesel Oil (Capacity)	Cu. Metres
12.22.5	Gas Oil (Tank Name)	
12.22.6	Gas Oil (Capacity)	Cu. Metres
12.23.1	Fuel Oil (Tank Name)	SETTL (S)
12.23.2	Fuel Oil (Capacity)	96.8 Cu. Metres
12.23.3	Diesel Oil (Tank Name)	
12.23.4	Diesel Oil (Capacity)	Cu. Metres
12.23.5	Gas Oil (Tank Name)	
12.23.6	Gas Oil (Capacity)	Cu. Metres
12.24.1	Fuel Oil (Tank Name)	SERV (S)
12.24.2	Fuel Oil (Capacity)	121.1 Cu. Metres
12.24.3	Diesel Oil (Tank Name)	
12.24.4	Diesel Oil (Capacity)	Cu. Metres
12.24.5	Gas Oil (Tank Name)	
12.24.6	Gas Oil (Capacity)	Cu. Metres
12.25.1	Fuel Oil (Tank Name)	
12.25.2	Fuel Oil (Capacity)	Cu. Metres
12.25.3	Diesel Oil (Tank Name)	
12.25.4	Diesel Oil (Capacity)	Cu. Metres
12.25.5	Gas Oil (Tank Name)	
12.25.6	Gas Oil (Capacity)	Cu. Metres

6 STEERING GEAR

12.26	What type of steering gear fitted?	Cylinder
12.27	How many motorized hydraulic pumps or motors fitted?	2
12.28	How many telemotors fitted?	2
12.29	Is an emergency rudder arrest/rudder control fitted?	Yes

7 ANTI-POLLUTION

12.30	Is an engine-room bilge high level alarm fitted?	Yes
12.31	Is a pump room bilge high level alarm fitted?	Yes
12.32	Is there a permanently installed system for the disposal of residues from the machinery space sludge tank to shore?	Yes
12.33	Are there facilities on board to incinerate machinery space sludge?	Yes

13 Chapter 13

1 SHIP TO SHIP TRANSFER

13.1	Does vessel comply with recommendations contained in OCIMF/ICS Ship To Ship Transfer Guide (Petroleum or Liquefied Gas, as applicable):	Yes
13.2	Are at least 7 ratings available to assist with mooring operations?	Yes
13.3	What is Safe Working Load (SWL) of bitts in the manifold area?	40 Metric Tonnes
13.4	Are manifold bitts at least 35 metres away from the breastlines leading fore and aft?	Yes
13.5	What is maximum outreach of vessel's cranes or derricks outboard of the ship's side?	5 Metres
13.6	Are four (4) 200m x 40mm messenger lines available for Ship-To-Ship (STS) mooring operations?	Yes
13.7	Are there two (2) closed chocks with associated bollards and leads to winches located within 35 metres forward and aft of the centre of the cargo manifold?	Yes

14 Chapter 14

1 CHEMICAL CARRIER INFORMATION

14.1	In the case of a Chemical Carrier carrying oil, does the vessel comply fully with the requirements of MARPOL as per Section 8 of the IOPP Supplement (Form B)?	
14.2	Is vessel equipped with an emergency portable cargo pump?	

14.3	Are independent high level alarms fitted?	
14.4	Is a tank overflow control system fitted?	
14.4.1	Are these also fitted to deck tanks?	
14.5	Are there cargo tank filling restrictions?	No
14.5.1	If yes	
14.5.2	Filling restrictions are	
14.6	Is the ship fitted with a fixed remote reading temperature system?	
14.7	Is the ship fitted with a fixed remote pressure gauging equipment?	
14.8	Specify other cargo measurement equipment available	
14.9	Is an Efficient Stripping System fitted?	
14.9.1	Are independent stripping lines fitted?	
14.9.2	What is the material of stripping lines?	
14.9.3	What is the diameter of the stripping lines?	Millimetres

2 IGS

14.10.1	(IGS) Composition of gas supplied by	
14.10.2	Nitrogen%	%
14.10.3	Carbon Dioxide %	%
14.10.4	Oxygen %	%
14.10.5	Sulphur Dioxide %	%
14.10.6	Carbon Monoxide %	%
14.10.7	Oxides of Nitrogen %	%
14.10.8	Dew Point degrees Celsius	Degrees Celsius
14.11.1	(IGS) Composition of gas supplied by	
14.11.2	Nitrogen%	%
14.11.3	Carbon Dioxide %	%
14.11.4	Oxygen %	%
14.11.5	Sulphur Dioxide %	%
14.11.6	Carbon Monoxide %	%
14.11.7	Oxides of Nitrgen %	%
14.11.8	Dew Point degrees Celsius	Degrees Celsius
14.12	Is Cargo Tank Drier fitted?	
14.12.1	If yes, manufacturer name	
14.12.2	Capacity	Cu. Metres/Hour
14.13	Is bottled Nitrogen available for deck use?	
14.14	Is steam available on deck?	

3 TANK CONDITIONING

14.15	Is there a fixed ventilation system?	
14.15.1	What is the Total capacity?	Cu. Metres/Hour
14.16	Is the fixed ventilation system fitted with a dehumidifier ?	
14.16.1	What is the Total capacity?	Cu. Metres/Hour
14.17	Is there independent piping?	
14.17.1	Through cargo lines	
14.17.2	Portable fans	
14.17.3	Number:	
14.17.4	Type:	
14.17.5	Capacity (one)	Cu. Metres/Hour
14.18	Are there gas freeing stand pipes?	
14.18.1	Portable:	
14.18.2	Fixed	

4 SAFETY

14.19	Is there Protective equipment for the protection of crew members available as per IBC 14.1.1 / BCH 3.16.1?	
14.20	When required by the Chemical Code, is respiratory and eye protection for every person on board available for emergency escape purposes?	
14.21	When required by the Chemical Code, is there on board at least three sets of personnel protection safety equipment (IBC 14.2.1 / BCH 3.16)?	
14.22	Is an Oxygen resuscitator available on board?	
14.23	Are there at least two decontamination showers available on deck?	

5 CARGO AND OTHER MANIFOLDS

14.24	Total number of manifold connections per side	
14.24.1.1	Number (Port)	
14.24.1.2	Size (Port)	Millimetres
14.24.2.1	Number (Starboard)	
14.24.2.2	Size (Starboard)	Millimetres
14.25	Designed Max. loading rate	Cu. Metres/Hour
14.26	Height of cargo vapour connections above keel	Metres
14.27	Located on both sides?	
14.28	Is there an additional connection to cargo system on deck?	
14.28.1	If yes, position (distance from bow)	Metres

6 CARGO AND OTHER MANIFOLD DIAGRAM

14.29	Cargo and Other Manifold Diagram	
14.30	Main deck to center of manifold (A)	Millimetres
14.31	Manifold to ship side (B)	Millimetres
14.32	Dimension C	Millimetres
14.33	Dimension D	Millimetres
14.34	Dimension E	Millimetres
14.35	Bunker manifold to cargo manifold (a)	Millimetres
14.36	Cargo manifold to cargo manifold (b)	Millimetres
14.37	Dimension x	Millimetres
14.38	Dimension y	Millimetres

14.39	Dimension z	Millimetres
14.40	Cargo manifold to vapour return manifold (i)	Metres
14.41	Dimension ii	Millimetres
14.42	Dimension iii	Millimetres

7 CARGO TANK PARTICULARS

14.43.1	Cargo Tank Number(1)	
14.43.2	TANK LOCATION	
14.43.3	IMO TYPE	
14.43.4	CAPACITY 100%	Cu. Metres
14.43.5	MAX. LOAD RATE	Cu. Metres/Hour
14.43.6	MAX. TANK PRESSURE	bar
14.43.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.43.8	PRESSURE MONITOR	
14.43.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.43.10	STRIPPED ROB	Liters
14.43.11	HEATING MAX. TEMP	Degrees Celsius
14.43.12	COOLING MIN. TEMP	Degrees Celsius
14.43.13	CONSTRUCTION MATERIAL OR COATING	
14.43.14	COATING DATE	
14.43.15	HIGH LEVEL ALARM TYPE	
14.43.16	HI/HI LEVEL ALARM TYPE	
14.43.17	LEVEL GAUGE TYPE	
14.43.18	VAPOUR LOCKS DIAMETER	Millimetres
14.43.19	CLOSED SAMPLE TYPE	
14.44.1	Cargo Tank Number(2)	
14.44.2	TANK LOCATION	
14.44.3	IMO TYPE	
14.44.4	CAPACITY 100%	Cu. Metres
14.44.5	MAX. LOAD RATE	Cu. Metres/Hour
14.44.6	MAX. TANK PRESSURE	bar
14.44.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.44.8	PRESSURE MONITOR	
14.44.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.44.10	STRIPPED ROB	Liters
14.44.11	HEATING MAX. TEMP	Degrees Celsius
14.44.12	COOLING MIN. TEMP	Degrees Celsius
14.44.13	CONSTRUCTION MATERIAL OR COATING	
14.44.14	COATING DATE	
14.44.15	HIGH LEVEL ALARM TYPE	
14.44.16	HI/HI LEVEL ALARM TYPE	
14.44.17	LEVEL GAUGE TYPE	
14.44.18	VAPOUR LOCKS DIAMETER	Millimetres
14.44.19	CLOSED SAMPLE TYPE	
14.45.1	Cargo Tank Number(3)	
14.45.2	TANK LOCATION	
14.45.3	IMO TYPE	
14.45.4	CAPACITY 100%	Cu. Metres
14.45.5	MAX. LOAD RATE	Cu. Metres/Hour
14.45.6	MAX. TANK PRESSURE	bar
14.45.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.45.8	PRESSURE MONITOR	
14.45.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.45.10	STRIPPED ROB	Liters
14.45.11	HEATING MAX. TEMP	Degrees Celsius
14.45.12	COOLING MIN. TEMP	Degrees Celsius
14.45.13	CONSTRUCTION MATERIAL OR COATING	
14.45.14	COATING DATE	
14.45.15	HIGH LEVEL ALARM TYPE	
14.45.16	HI/HI LEVEL ALARM TYPE	
14.45.17	LEVEL GAUGE TYPE	
14.45.18	VAPOUR LOCKS DIAMETER	Millimetres
14.45.19	CLOSED SAMPLE TYPE	
14.46.1	Cargo Tank Number(4)	
14.46.2	TANK LOCATION	
14.46.3	IMO TYPE	
14.46.4	CAPACITY 100%	Cu. Metres
14.46.5	MAX. LOAD RATE	Cu. Metres/Hour
14.46.6	MAX. TANK PRESSURE	bar
14.46.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.46.8	PRESSURE MONITOR	
14.46.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.46.10	STRIPPED ROB	Liters
14.46.11	HEATING MAX. TEMP	Degrees Celsius
14.46.12	COOLING MIN. TEMP	Degrees Celsius
14.46.13	CONSTRUCTION MATERIAL OR COATING	
14.46.14	COATING DATE	
14.46.15	HIGH LEVEL ALARM TYPE	
14.46.16	HI/HI LEVEL ALARM TYPE	
14.46.17	LEVEL GAUGE TYPE	
14.46.18	VAPOUR LOCKS DIAMETER	Millimetres
14.46.19	CLOSED SAMPLE TYPE	
14.47.1	Cargo Tank Number(5)	
14.47.2	TANK LOCATION	
14.47.3	IMO TYPE	
14.47.4	CAPACITY 100%	Cu. Metres

14.47.6	MAX. LOAD RATE	Cu. Metres/Hour
14.47.6	MAX. TANK PRESSURE	bar
14.47.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.47.8	PRESSURE MONITOR	
14.47.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.47.10	STRIPPED ROB	Liters
14.47.11	HEATING MAX. TEMP	Degrees Celsius
14.47.12	COOLING MIN. TEMP	Degrees Celsius
14.47.13	CONSTRUCTION MATERIAL OR COATING	
14.47.14	COATING DATE	
14.47.15	HIGH LEVEL ALARM TYPE	
14.47.16	HI/HI LEVEL ALARM TYPE	
14.47.17	LEVEL GAUGE TYPE	
14.47.18	VAPOUR LOCKS DIAMETER	Millimetres
14.47.19	CLOSED SAMPLE TYPE	
14.48.1	Cargo Tank Number(6)	
14.48.2	TANK LOCATION	
14.48.3	IMO TYPE	
14.48.4	CAPACITY 100%	Cu. Metres
14.48.5	MAX. LOAD RATE	Cu. Metres/Hour
14.48.6	MAX. TANK PRESSURE	bar
14.48.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.48.8	PRESSURE MONITOR	
14.48.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.48.10	STRIPPED ROB	Liters
14.48.11	HEATING MAX. TEMP	Degrees Celsius
14.48.12	COOLING MIN. TEMP	Degrees Celsius
14.48.13	CONSTRUCTION MATERIAL OR COATING	
14.48.14	COATING DATE	
14.48.15	HIGH LEVEL ALARM TYPE	
14.48.16	HI/HI LEVEL ALARM TYPE	
14.48.17	LEVEL GAUGE TYPE	
14.48.18	VAPOUR LOCKS DIAMETER	Millimetres
14.48.19	CLOSED SAMPLE TYPE	
14.49.1	Cargo Tank Number(7)	
14.49.2	TANK LOCATION	
14.49.3	IMO TYPE	
14.49.4	CAPACITY 100%	Cu. Metres
14.49.5	MAX. LOAD RATE	Cu. Metres/Hour
14.49.6	MAX. TANK PRESSURE	bar
14.49.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.49.8	PRESSURE MONITOR	
14.49.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.49.10	STRIPPED ROB	Liters
14.49.11	HEATING MAX. TEMP	Degrees Celsius
14.49.12	COOLING MIN. TEMP	Degrees Celsius
14.49.13	CONSTRUCTION MATERIAL OR COATING	
14.49.14	COATING DATE	
14.49.15	HIGH LEVEL ALARM TYPE	
14.49.16	HI/HI LEVEL ALARM TYPE	
14.49.17	LEVEL GAUGE TYPE	
14.49.18	VAPOUR LOCKS DIAMETER	Millimetres
14.49.19	CLOSED SAMPLE TYPE	
14.50.1	Cargo Tank Number(8)	
14.50.2	TANK LOCATION	
14.50.3	IMO TYPE	
14.50.4	CAPACITY 100%	Cu. Metres
14.50.5	MAX. LOAD RATE	Cu. Metres/Hour
14.50.6	MAX. TANK PRESSURE	bar
14.50.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.50.8	PRESSURE MONITOR	
14.50.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.50.10	STRIPPED ROB	Liters
14.50.11	HEATING MAX. TEMP	Degrees Celsius
14.50.12	COOLING MIN. TEMP	Degrees Celsius
14.50.13	CONSTRUCTION MATERIAL OR COATING	
14.50.14	COATING DATE	
14.50.15	HIGH LEVEL ALARM TYPE	
14.50.16	HI/HI LEVEL ALARM TYPE	
14.50.17	LEVEL GAUGE TYPE	
14.50.18	VAPOUR LOCKS DIAMETER	Millimetres
14.50.19	CLOSED SAMPLE TYPE	
14.51.1	Cargo Tank Number(9)	
14.51.2	TANK LOCATION	
14.51.3	IMO TYPE	
14.51.4	CAPACITY 100%	Cu. Metres
14.51.5	MAX. LOAD RATE	Cu. Metres/Hour
14.51.6	MAX. TANK PRESSURE	bar
14.51.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.51.8	PRESSURE MONITOR	
14.51.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.51.10	STRIPPED ROB	Liters
14.51.11	HEATING MAX. TEMP	Degrees Celsius
14.51.12	COOLING MIN. TEMP	Degrees Celsius
14.51.13	CONSTRUCTION MATERIAL OR COATING	
14.51.14	COATING DATE	

COATING DATE	
14.51.15	HIGH LEVEL ALARM TYPE
14.51.16	HI/HI LEVEL ALARM TYPE
14.51.17	LEVEL GAUGE TYPE
14.51.18	VAPOUR LOCKS DIAMETER
	Millimetres
14.51.19	CLOSED SAMPLE TYPE
14.52.1	Cargo Tank Number(10)
14.52.2	TANK LOCATION
14.52.3	IMO TYPE
14.52.4	CAPACITY 100%
	Cu. Metres
14.52.5	MAX. LOAD RATE
	Cu. Metres/Hour
14.52.6	MAX. TANK PRESSURE
	bar
14.52.7	MAX. VENTING CAPACITY
	Cu. Metres/Hour
14.52.8	PRESSURE MONITOR
14.52.9	CARGO PUMP CAPACITY
	Cu. Metres/Hour
14.52.10	STRIPPED ROB
	Liters
14.52.11	HEATING MAX. TEMP
	Degrees Celsius
14.52.12	COOLING MIN. TEMP
	Degrees Celsius
14.52.13	CONSTRUCTION MATERIAL OR COATING
14.52.14	COATING DATE
14.52.15	HIGH LEVEL ALARM TYPE
14.52.16	HI/HI LEVEL ALARM TYPE
14.52.17	LEVEL GAUGE TYPE
14.52.18	VAPOUR LOCKS DIAMETER
	Millimetres
14.52.19	CLOSED SAMPLE TYPE
14.53.1	Cargo Tank Number(11)
14.53.2	TANK LOCATION
14.53.3	IMO TYPE
14.53.4	CAPACITY 100%
	Cu. Metres
14.53.5	MAX. LOAD RATE
	Cu. Metres/Hour
14.53.6	MAX. TANK PRESSURE
	bar
14.53.7	MAX. VENTING CAPACITY
	Cu. Metres/Hour
14.53.8	PRESSURE MONITOR
14.53.9	CARGO PUMP CAPACITY
	Cu. Metres/Hour
14.53.10	STRIPPED ROB
	Liters
14.53.11	HEATING MAX. TEMP
	Degrees Celsius
14.53.12	COOLING MIN. TEMP
	Degrees Celsius
14.53.13	CONSTRUCTION MATERIAL OR COATING
14.53.14	COATING DATE
14.53.15	HIGH LEVEL ALARM TYPE
14.53.16	HI/HI LEVEL ALARM TYPE
14.53.17	LEVEL GAUGE TYPE
14.53.18	VAPOUR LOCKS DIAMETER
	Millimetres
14.53.19	CLOSED SAMPLE TYPE
14.54.1	Cargo Tank Number(12)
14.54.2	TANK LOCATION
14.54.3	IMO TYPE
14.54.4	CAPACITY 100%
	Cu. Metres
14.54.5	MAX. LOAD RATE
	Cu. Metres/Hour
14.54.6	MAX. TANK PRESSURE
	bar
14.54.7	MAX. VENTING CAPACITY
	Cu. Metres/Hour
14.54.8	PRESSURE MONITOR
14.54.9	CARGO PUMP CAPACITY
	Cu. Metres/Hour
14.54.10	STRIPPED ROB
	Liters
14.54.11	HEATING MAX. TEMP
	Degrees Celsius
14.54.12	COOLING MIN. TEMP
	Degrees Celsius
14.54.13	CONSTRUCTION MATERIAL OR COATING
14.54.14	COATING DATE
14.54.15	HIGH LEVEL ALARM TYPE
14.54.16	HI/HI LEVEL ALARM TYPE
14.54.17	LEVEL GAUGE TYPE
14.54.18	VAPOUR LOCKS DIAMETER
	Millimetres
14.54.19	CLOSED SAMPLE TYPE
14.55.1	Cargo Tank Number(13)
14.55.2	TANK LOCATION
14.55.3	IMO TYPE
14.55.4	CAPACITY 100%
	Cu. Metres
14.55.5	MAX. LOAD RATE
	Cu. Metres/Hour
14.55.6	MAX. TANK PRESSURE
	bar
14.55.7	MAX. VENTING CAPACITY
	Cu. Metres/Hour
14.55.8	PRESSURE MONITOR
14.55.9	CARGO PUMP CAPACITY
	Cu. Metres/Hour
14.55.10	STRIPPED ROB
	Liters
14.55.11	HEATING MAX. TEMP
	Degrees Celsius
14.55.12	COOLING MIN. TEMP
	Degrees Celsius
14.55.13	CONSTRUCTION MATERIAL OR COATING
14.55.14	COATING DATE
14.55.15	HIGH LEVEL ALARM TYPE
14.55.16	HI/HI LEVEL ALARM TYPE
14.55.17	LEVEL GAUGE TYPE
14.55.18	VAPOUR LOCKS DIAMETER
	Millimetres
14.55.19	CLOSED SAMPLE TYPE
14.56.1	Cargo Tank Number(14)
14.56.2	TANK LOCATION
14.56.3	IMO TYPE
14.56.4	

14.56.5	CAPACITY 100%	Cu. Metres
14.56.5	MAX. LOAD RATE	Cu. Metres/Hour
14.56.6	MAX. TANK PRESSURE	bar
14.56.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.56.8	PRESSURE MONITOR	
14.56.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.56.10	STRIPPED ROB	Liters
14.56.11	HEATING MAX. TEMP	Degrees Celsius
14.56.12	COOLING MIN. TEMP	Degrees Celsius
14.56.13	CONSTRUCTION MATERIAL OR COATING	
14.56.14	COATING DATE	
14.56.15	HIGH LEVEL ALARM TYPE	
14.56.16	HI/HI LEVEL ALARM TYPE	
14.56.17	LEVEL GAUGE TYPE	
14.56.18	VAPOUR LOCKS DIAMETER	Millimetres
14.56.19	CLOSED SAMPLE TYPE	
14.57.1	Cargo Tank Number(15)	
14.57.2	TANK LOCATION	
14.57.3	IMO TYPE	
14.57.4	CAPACITY 100%	Cu. Metres
14.57.5	MAX. LOAD RATE	Cu. Metres/Hour
14.57.6	MAX. TANK PRESSURE	bar
14.57.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.57.8	PRESSURE MONITOR	
14.57.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.57.10	STRIPPED ROB	Liters
14.57.11	HEATING MAX. TEMP	Degrees Celsius
14.57.12	COOLING MIN. TEMP	Degrees Celsius
14.57.13	CONSTRUCTION MATERIAL OR COATING	
14.57.14	COATING DATE	
14.57.15	HIGH LEVEL ALARM TYPE	
14.57.16	HI/HI LEVEL ALARM TYPE	
14.57.17	LEVEL GAUGE TYPE	
14.57.18	VAPOUR LOCKS DIAMETER	Millimetres
14.57.19	CLOSED SAMPLE TYPE	
14.58.1	Cargo Tank Number(16)	
14.58.2	TANK LOCATION	
14.58.3	IMO TYPE	
14.58.4	CAPACITY 100%	Cu. Metres
14.58.5	MAX. LOAD RATE	Cu. Metres/Hour
14.58.6	MAX. TANK PRESSURE	bar
14.58.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.58.8	PRESSURE MONITOR	
14.58.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.58.10	STRIPPED ROB	Liters
14.58.11	HEATING MAX. TEMP	Degrees Celsius
14.58.12	COOLING MIN. TEMP	Degrees Celsius
14.58.13	CONSTRUCTION MATERIAL OR COATING	
14.58.14	COATING DATE	
14.58.15	HIGH LEVEL ALARM TYPE	
14.58.16	HI/HI LEVEL ALARM TYPE	
14.58.17	LEVEL GAUGE TYPE	
14.58.18	VAPOUR LOCKS DIAMETER	Millimetres
14.58.19	CLOSED SAMPLE TYPE	
14.59.1	Cargo Tank Number(17)	
14.59.2	TANK LOCATION	
14.59.3	IMO TYPE	
14.59.4	CAPACITY 100%	Cu. Metres
14.59.5	MAX. LOAD RATE	Cu. Metres/Hour
14.59.6	MAX. TANK PRESSURE	bar
14.59.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.59.8	PRESSURE MONITOR	
14.59.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.59.10	STRIPPED ROB	Liters
14.59.11	HEATING MAX. TEMP	Degrees Celsius
14.59.12	COOLING MIN. TEMP	Degrees Celsius
14.59.13	CONSTRUCTION MATERIAL OR COATING	
14.59.14	COATING DATE	
14.59.15	HIGH LEVEL ALARM TYPE	
14.59.16	HI/HI LEVEL ALARM TYPE	
14.59.17	LEVEL GAUGE TYPE	
14.59.18	VAPOUR LOCKS DIAMETER	Millimetres
14.59.19	CLOSED SAMPLE TYPE	
14.60.1	Cargo Tank Number(18)	
14.60.2	TANK LOCATION	
14.60.3	IMO TYPE	
14.60.4	CAPACITY 100%	Cu. Metres
14.60.5	MAX. LOAD RATE	Cu. Metres/Hour
14.60.6	MAX. TANK PRESSURE	bar
14.60.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.60.8	PRESSURE MONITOR	
14.60.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.60.10	STRIPPED ROB	Liters
14.60.11	HEATING MAX. TEMP	Degrees Celsius
14.60.12	COOLING MIN. TEMP	Degrees Celsius
14.60.13	CONSTRUCTION MATERIAL OR COATING	
14.60.14	COATING DATE	
14.60.15	HIGH LEVEL ALARM TYPE	
14.60.16	HI/HI LEVEL ALARM TYPE	
14.60.17	LEVEL GAUGE TYPE	
14.60.18	VAPOUR LOCKS DIAMETER	Millimetres
14.60.19	CLOSED SAMPLE TYPE	

	CONSTRUCTION MATERIAL OR COATING	
14.60.14	COATING DATE	
14.60.15	HIGH LEVEL ALARM TYPE	
14.60.16	HI/HI LEVEL ALARM TYPE	
14.60.17	LEVEL GAUGE TYPE	
14.60.18	VAPOUR LOCKS DIAMETER	Millimetres
14.60.19	CLOSED SAMPLE TYPE	
14.61.1	Cargo Tank Number(19)	
14.61.2	TANK LOCATION	
14.61.3	IMO TYPE	
14.61.4	CAPACITY 100%	Cu. Metres
14.61.5	MAX. LOAD RATE	Cu. Metres/Hour
14.61.6	MAX. TANK PRESSURE	bar
14.61.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.61.8	PRESSURE MONITOR	
14.61.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.61.10	STRIPPED ROB	Liters
14.61.11	HEATING MAX. TEMP	Degrees Celsius
14.61.12	COOLING MIN. TEMP	Degrees Celsius
14.61.13	CONSTRUCTION MATERIAL OR COATING	
14.61.14	COATING DATE	
14.61.15	HIGH LEVEL ALARM TYPE	
14.61.16	HI/HI LEVEL ALARM TYPE	
14.61.17	LEVEL GAUGE TYPE	
14.61.18	VAPOUR LOCKS DIAMETER	Millimetres
14.61.19	CLOSED SAMPLE TYPE	
14.62.1	Cargo Tank Number(20)	
14.62.2	TANK LOCATION	
14.62.3	IMO TYPE	
14.62.4	CAPACITY 100%	Cu. Metres
14.62.5	MAX. LOAD RATE	Cu. Metres/Hour
14.62.6	MAX. TANK PRESSURE	bar
14.62.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.62.8	PRESSURE MONITOR	
14.62.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.62.10	STRIPPED ROB	Liters
14.62.11	HEATING MAX. TEMP	Degrees Celsius
14.62.12	COOLING MIN. TEMP	Degrees Celsius
14.62.13	CONSTRUCTION MATERIAL OR COATING	
14.62.14	COATING DATE	
14.62.15	HIGH LEVEL ALARM TYPE	
14.62.16	HI/HI LEVEL ALARM TYPE	
14.62.17	LEVEL GAUGE TYPE	
14.62.18	VAPOUR LOCKS DIAMETER	Millimetres
14.62.19	CLOSED SAMPLE TYPE	
14.63.1	Cargo Tank Number(21)	
14.63.2	TANK LOCATION	
14.63.3	IMO TYPE	
14.63.4	CAPACITY 100%	Cu. Metres
14.63.5	MAX. LOAD RATE	Cu. Metres/Hour
14.63.6	MAX. TANK PRESSURE	bar
14.63.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.63.8	PRESSURE MONITOR	
14.63.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.63.10	STRIPPED ROB	Liters
14.63.11	HEATING MAX. TEMP	Degrees Celsius
14.63.12	COOLING MIN. TEMP	Degrees Celsius
14.63.13	CONSTRUCTION MATERIAL OR COATING	
14.63.14	COATING DATE	
14.63.15	HIGH LEVEL ALARM TYPE	
14.63.16	HI/HI LEVEL ALARM TYPE	
14.63.17	LEVEL GAUGE TYPE	
14.63.18	VAPOUR LOCKS DIAMETER	Millimetres
14.63.19	CLOSED SAMPLE TYPE	
14.64.1	Cargo Tank Number(22)	
14.64.2	TANK LOCATION	
14.64.3	IMO TYPE	
14.64.4	CAPACITY 100%	Cu. Metres
14.64.5	MAX. LOAD RATE	Cu. Metres/Hour
14.64.6	MAX. TANK PRESSURE	bar
14.64.7	MAX. VENTING CAPACITY	Cu. Metres/Hour
14.64.8	PRESSURE MONITOR	
14.64.9	CARGO PUMP CAPACITY	Cu. Metres/Hour
14.64.10	STRIPPED ROB	Liters
14.64.11	HEATING MAX. TEMP	Degrees Celsius
14.64.12	COOLING MIN. TEMP	Degrees Celsius
14.64.13	CONSTRUCTION MATERIAL OR COATING	
14.64.14	COATING DATE	
14.64.15	HIGH LEVEL ALARM TYPE	
14.64.16	HI/HI LEVEL ALARM TYPE	
14.64.17	LEVEL GAUGE TYPE	
14.64.18	VAPOUR LOCKS DIAMETER	Millimetres
14.64.19	CLOSED SAMPLE TYPE	
8	BALLAST TANK CAPACITIES	
14.65.1	Ballast Tank Number(1)	

	Ballast Tank Location(1)	
14.65.3	Ballast Tank Coating Date(1)	
14.65.4	Ballast Tank Capacity(1)	Cu. Metres
14.66.1	Ballast Tank Number(2)	
14.66.2	Ballast Tank Location(2)	
14.66.3	Ballast Tank Coating Date(2)	
14.66.4	Ballast Tank Capacity(2)	Cu. Metres
14.67.1	Ballast Tank Number(3)	
14.67.2	Ballast Tank Location(3)	
14.67.3	Ballast Tank Coating Date(3)	
14.67.4	Ballast Tank Capacity(3)	Cu. Metres
14.68.1	Ballast Tank Number(4)	
14.68.2	Ballast Tank Location(4)	
14.68.3	Ballast Tank Coating Date(4)	
14.68.4	Ballast Tank Capacity(4)	Cu. Metres
14.69.1	Ballast Tank Number(5)	
14.69.2	Ballast Tank Location(5)	
14.69.3	Ballast Tank Coating Date(5)	
14.69.4	Ballast Tank Capacity(5)	Cu. Metres
14.70.1	Ballast Tank Number(6)	
14.70.2	Ballast Tank Location(6)	
14.70.3	Ballast Tank Coating Date(6)	
14.70.4	Ballast Tank Capacity(6)	Cu. Metres
14.71.1	Ballast Tank Number(7)	
14.71.2	Ballast Tank Location(7)	
14.71.3	Ballast Tank Coating Date(7)	
14.71.4	Ballast Tank Capacity(7)	Cu. Metres
14.72.1	Ballast Tank Number(8)	
14.72.2	Ballast Tank Location(8)	
14.72.3	Ballast Tank Coating Date(8)	
14.72.4	Ballast Tank Capacity(8)	Cu. Metres
14.73.1	Ballast Tank Number(9)	
14.73.2	Ballast Tank Location(9)	
14.73.3	Ballast Tank Coating Date(9)	
14.73.4	Ballast Tank Capacity(9)	Cu. Metres
14.74.1	Ballast Tank Number(10)	
14.74.2	Ballast Tank Location(10)	
14.74.3	Ballast Tank Coating Date(10)	
14.74.4	Ballast Tank Capacity(10)	Cu. Metres
14.75.1	Ballast Tank Number(11)	
14.75.2	Ballast Tank Location(11)	
14.75.3	Ballast Tank Coating Date(11)	
14.75.4	Ballast Tank Capacity(11)	Cu. Metres
14.76.1	Ballast Tank Number(12)	
14.76.2	Ballast Tank Location(12)	
14.76.3	Ballast Tank Coating Date(12)	
14.76.4	Ballast Tank Capacity(12)	Cu. Metres
14.77.1	Ballast Tank Number(13)	
14.77.2	Ballast Tank Location(13)	
14.77.3	Ballast Tank Coating Date(13)	
14.77.4	Ballast Tank Capacity(13)	Cu. Metres
14.78.1	Ballast Tank Number(14)	
14.78.2	Ballast Tank Location(14)	
14.78.3	Ballast Tank Coating Date(14)	
14.78.4	Ballast Tank Capacity(14)	Cu. Metres
14.79.1	Ballast Tank Number(15)	
14.79.2	Ballast Tank Location(15)	
14.79.3	Ballast Tank Coating Date(15)	
14.79.4	Ballast Tank Capacity(15)	Cu. Metres
14.80.1	Ballast Tank Number(16)	
14.80.2	Ballast Tank Location(16)	
14.80.3	Ballast Tank Coating Date(16)	
14.80.4	Ballast Tank Capacity(16)	Cu. Metres
14.81.1	Ballast Tank Number(17)	
14.81.2	Ballast Tank Location(17)	
14.81.3	Ballast Tank Coating Date(17)	
14.81.4	Ballast Tank Capacity(17)	Cu. Metres
14.82.1	Ballast Tank Number(18)	
14.82.2	Ballast Tank Location(18)	
14.82.3	Ballast Tank Coating Date(18)	
14.82.4	Ballast Tank Capacity(18)	Cu. Metres
14.83.1	Ballast Tank Number(19)	
14.83.2	Ballast Tank Location(19)	
14.83.3	Ballast Tank Coating Date(19)	
14.83.4	Ballast Tank Capacity(19)	Cu. Metres
14.84.1	Ballast Tank Number(20)	
14.84.2	Ballast Tank Location(20)	
14.84.3	Ballast Tank Coating Date(20)	
14.84.4	Ballast Tank Capacity(20)	Cu. Metres
14.85.1	Ballast Tank Number(21)	
14.85.2	Ballast Tank Location(21)	
14.85.3	Ballast Tank Coating Date(21)	
14.85.4	Ballast Tank Capacity(21)	Cu. Metres
14.86	Ballast Tank Total Capacity	0 Cu. Metres
9	TANK CLEANING SYSTEM	

14.88	Is tank cleaning equipment fixed in cargo tanks?	
14.89	What is the capacity of one tank cleaning machine?	Cu. Metres/Hour
14.89.1	At pressure of:	bar
14.89.2	Duration of complete cycle	Minutes
14.89.3	Nozzle diameter	Millimetres
14.90	Tank washing pump capacity	Cu. Metres/Hour
14.91	Is a washing water heater fitted?	
14.91.1	What is the Max. washing water temperature?	Degrees Celsius
14.92	Maximum number of machines operative at pressure above	
14.93	Where there is different type of equipment used, what is the capacity and type of equipment?	

15 Chapter 15

1 GAS CARRIER INFORMATION

15.1	Does vessel have an IOPPC with Form B identifying the vessel as an oil product carrier?	Yes
15.2	Do the Safety Construction and Safety Equipment Certificates identify the vessel as a 'tanker engaged in the trade of carrying oil other than crude oil'?	

2 CARGO INFORMATION

15.3	List products which the ship is Certified to carry	
3	TRANSPORT AND CARRIAGE CONDITIONS	
15.4	What is the Minimum allowable tank temperature?	Degrees Celsius
15.5	What is the Maximum Permissible tank pressure?	Kp/Sq. Centimetre
15.6	Lowest permissible cargo tank pressure	Kp/Sq. Centimetre
15.7	What are the Number of grades that can be loaded/ carried/discharged simultaneously and completely segregated without risk of contamination?	
15.8	What is the Number of Products that can be conditioned by reliquefaction simultaneously?	
15.9	State the number of natural segregations (NB: Separation must be by the removal of spools or the insertion of blanks)	
15.10	Material of Construction of Cargo Piping System	
15.11	Is Cargo piping system fitted with filters?	
15.11.1	If yes, can cargo piping filters be by-passed or removed?	
15.12	Are Expansion loops fitted?	
15.13	Are liquid cargo lines free of expansion bellows?	
15.14	Location of Booster pumps	

4 CARGO TANKS

15.15	What Type and materials of cargo tanks?	
15.16	Maximum allowable relief valve setting	Bar Gauge
15.17	IMO Setting	Bar Gauge
15.18	USCG Setting	Bar Gauge
15.19	Safety valve set pressure - if variable give range of pilot valves	Bar Gauge
15.19.1	If variable give range of pilot valves - from:	Bar Gauge
15.19.2	If variable give range of pilot valves - to:	Bar Gauge
15.20	Maximum Vacuum	Kp/Sq. Centimetre
15.21	Maximum cargo density	Kp/Sq. Centimetre
15.22	Maximum rate of cool down	Degrees C/Hour
15.23	State any limitations regarding partially filled tanks	
15.24	State allowable combinations of filled and empty tanks	

5 CARGO TANK CAPACITIES

15.25.1	Tank 1 Capacity m3 (100%)	Cu. Metres
15.25.2	Tank 1 Butane Tonnes	Metric Tonnes
15.25.3	Tank 1 Butane degrees C	Degrees Celsius
15.25.4	Tank 1 Propane Tonnes	Metric Tonnes
15.25.5	Tank 1 Propane degrees C	Degrees Celsius
15.25.6	Tank 1 Ammonia Tonnes	Metric Tonnes
15.25.7	Tank 1 Ammonia degrees C	Degrees Celsius
15.25.7.1	Specify other cargo	
15.25.8	Tank 1 "other" Tonnes	Metric Tonnes
15.25.9	Tank 1 "other" degrees C	Degrees Celsius
15.25.10	Tank 1 "other" Tonnes	Metric Tonnes
15.25.11	Tank 1 "other" degrees C	Degrees Celsius
15.26.1	Tank 2 Capacity m3 (100%)	Cu. Metres
15.26.2	Tank 2 Butane Tonnes	Metric Tonnes
15.26.3	Tank 2 Butane degrees C	Degrees Celsius
15.26.4	Tank 2 Propane Tonnes	Metric Tonnes
15.26.5	Tank 2 Propane degrees C	Degrees Celsius
15.26.6	Tank 2 Ammonia Tonnes	Metric Tonnes
15.26.7	Tank 2 Ammonia degrees C	Degrees Celsius
15.26.7.1	Specify other cargo	
15.26.8	Tank 2 "other" Tonnes	Metric Tonnes
15.26.9	Tank 2 "other" degrees C	Degrees Celsius
15.26.10	Tank 2 "other" Tonnes	Metric Tonnes
15.26.11	Tank 2 "other" degrees C	Degrees Celsius
15.27.1	Tank 3 Capacity m3 (100%)	Cu. Metres
15.27.2	Tank 3 Butane Tonnes	Metric Tonnes
15.27.3	Tank 3 Butane degrees C	Degrees Celsius
15.27.4	Tank 3 Propane Tonnes	Metric Tonnes
15.27.5	Tank 3 Propane degrees C	Degrees Celsius
15.27.6	Tank 3 Ammonia Tonnes	Metric Tonnes
15.27.7	Tank 3 Ammonia degrees C	Degrees Celsius

15.27.7.1	Specify other cargo	
15.27.8	Tank 3 "other" Tonnes	Metric Tonnes
15.27.9	Tank 3 "other" degrees C	Degrees Celsius
15.27.10	Tank 3 "other" Tonnes	Metric Tonnes
15.27.11	Tank 3 "other" degrees C	Degrees Celsius
15.28.1	Tank 4 Capacity m3 (100%)	Cu. Metres
15.28.2	Tank 4 Butane Tonnes	Metric Tonnes
15.28.3	Tank 4 Butane degrees C	Degrees Celsius
15.28.4	Tank 4 Propane Tonnes	Metric Tonnes
15.28.5	Tank 4 Propane degrees C	Degrees Celsius
15.28.6	Tank 4 Ammonia Tonnes	Metric Tonnes
15.28.7	Tank 4 Ammonia degrees C	Degrees Celsius
15.28.7.1	Specify other cargo	
15.28.8	Tank 4 "other" Tonnes	Metric Tonnes
15.28.9	Tank 4 "other" degrees C	Degrees Celsius
15.28.10	Tank 4 "other" Tonnes	Metric Tonnes
15.28.11	Tank 4 "other" degrees C	Degrees Celsius
15.29.1	Tank 5 Capacity m3 (100%)	Cu. Metres
15.29.2	Tank 5 Butane Tonnes	Metric Tonnes
15.29.3	Tank 5 Butane degrees C	Degrees Celsius
15.29.4	Tank 5 Propane Tonnes	Metric Tonnes
15.29.5	Tank 5 Propane degrees C	Degrees Celsius
15.29.6	Tank 5 Ammonia Tonnes	Metric Tonnes
15.29.7.1	Specify other cargo	
15.29.7	Tank 5 Ammonia degrees C	Degrees Celsius
15.29.8	Tank 5 "other" Tonnes	Metric Tonnes
15.29.9	Tank 5 "other" degrees C	Degrees Celsius
15.29.10	Tank 5 "other" Tonnes	Metric Tonnes
15.29.11	Tank 5 "other" degrees C	Degrees Celsius
15.30.1	Tank 6 Capacity m3 (100%)	Cu. Metres
15.30.2	Tank 6 Butane Tonnes	Metric Tonnes
15.30.3	Tank 6 Butane degrees C	Degrees Celsius
15.30.4	Tank 6 Propane Tonnes	Metric Tonnes
15.30.5	Tank 6 Propane degrees C	Degrees Celsius
15.30.6	Tank 6 Ammonia Tonnes	Metric Tonnes
15.30.7	Tank 6 Ammonia degrees C	Degrees Celsius
15.30.7.1	Specify other cargo	
15.30.8	Tank 6 "other" Tonnes	Metric Tonnes
15.30.9	Tank 6 "other" degrees C	Degrees Celsius
15.30.10	Tank 6 "other" Tonnes	Metric Tonnes
15.30.11	Tank 6 "other" degrees C	Degrees Celsius
15.31.1	Tank 7 Capacity m3 (100%)	Cu. Metres
15.31.2	Tank 7 Butane Tonnes	Metric Tonnes
15.31.3	Tank 7 Butane degrees C	Degrees Celsius
15.31.4	Tank 7 Propane Tonnes	Metric Tonnes
15.31.5	Tank 7 Propane degrees C	Degrees Celsius
15.31.6	Tank 7 Ammonia Tonnes	Metric Tonnes
15.31.7	Tank 7 Ammonia degrees C	Degrees Celsius
15.31.7.1	Specify other cargo	
15.31.8	Tank 7 "other" Tonnes	Metric Tonnes
15.31.9	Tank 7 "other" degrees C	Degrees Celsius
15.31.10	Tank 7 "other" Tonnes	Metric Tonnes
15.31.11	Tank 7 "other" degrees C	Degrees Celsius
15.32.1	Tank 8 Capacity m3 (100%)	Cu. Metres
15.32.2	Tank 8 Butane Tonnes	Metric Tonnes
15.32.3	Tank 8 Butane degrees C	Degrees Celsius
15.32.4	Tank 8 Propane Tonnes	Metric Tonnes
15.32.5	Tank 8 Propane degrees C	Degrees Celsius
15.32.6	Tank 8 Ammonia Tonnes	Metric Tonnes
15.32.7	Tank 8 Ammonia degrees C	Degrees Celsius
15.32.7.1	Specify other cargo	
15.32.8	Tank 8 "other" Tonnes	Metric Tonnes
15.32.9	Tank 8 "other" degrees C	Degrees Celsius
15.32.10	Tank 8 "other" Tonnes	Metric Tonnes
15.32.11	Tank 8 "other" degrees C	Degrees Celsius
15.33	Total Capacity of all tanks (100%)	0 Cu. Metres
15.34	Total Capacity of all Butane tanks Tonnes	0 Metric Tonnes
15.35	Total Capacity of all Propane tanks Tonnes	0 Metric Tonnes
15.36	Total Capacity of all Ammonia tanks Tonnes	0 Metric Tonnes
15.37	Total Capacity of all "other" tanks Tonnes	0 Metric Tonnes
15.38	Total Capacity of all "other" tanks Tonnes	0 Metric Tonnes

6 LOADING RATES

15.39	From Refrigerated Storage	
15.39.1	Butane - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.39.2	Butane - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.39.3	Propane - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.39.4	Propane - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.39.5	Ammonia - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.39.6	Ammonia - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.39.7	"other" - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.39.7.1	Specify other cargo	
15.39.8	"other" - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.39.9	"other" - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.39.10	"other" - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.40	From Pressure Storage	

15.40.2	Butane 0-30deg C - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.40.3	Propane 0 deg C - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.40.4	Propane 0 deg C - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.40.5	Propane 10 deg C - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.40.6	Propane 10 deg C - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.40.7	Propane 20 deg C - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.40.8	Propane 20 deg C - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.40.9	Propane 30 deg C - Rate (tonnes/hr) with vapor return	Metric Tonnes/Hour
15.40.10	Propane 30 deg C - Rate (tonnes/hr) without vapor return	Metric Tonnes/Hour
15.41	Special remarks	

7 DISCHARGING - GENERAL

15.42	Cargo Pumps	
15.42.1	Type of Cargo Pumps	
15.42.2	Number of pumps per tank	
15.42.3	Rate per Pump m3/hr	Cu. Metres/Hour
15.42.4	At Delivery Head mlc	Metres Liquid Column
15.42.5	Maximum density kg/m3	Kg/Cu. Metre
15.43	Booster Pump	
15.43.1	Type of Booster Pumps	
15.43.2	Number of pumps per tank	
15.43.3	Rate per Pump m3/hr	Cu. Metres/Hour
15.43.4	At Delivery Head mlc	Metres Liquid Column
15.43.5	Maximum density kg/m3	Kg/Cu. Metre

8 DISCHARGE PERFORMANCE

15.44	Full Cargo Discharge Times (using all main pumps)	
15.44.1	Fully Refrigerated	
15.44.1.1	Hours (Back Press 1 kP/cm2) with vapor return	Hours
15.44.1.2	Hours (Back Press 1 kP/cm2) without vapor return	Hours
15.44.1.3	Hours (Back Press 5 kP/cm2) with vapor return	Hours
15.44.1.4	Hours (Back Press 5 kP/cm2) without vapor return	Hours
15.44.1.5	Hours (Back Press 10 kP/cm2) with vapor return	Hours
15.44.1.6	Hours (Back Press 10 kP/cm2) without vapor return	Hours
15.44.2	Pressurized	
15.44.2.1	Hours (Back Press 1 kP/cm2) with vapor return	Hours
15.44.2.2	Hours (Back Press 1 kP/cm2) without vapor return	Hours
15.44.2.3	Hours (Back Press 5 kP/cm2) with vapor return	Hours
15.44.2.4	Hours (Back Press 5 kP/cm2) without vapor return	Hours
15.44.2.5	Hours (Back Press 10 kP/cm2) with vapor return	Hours
15.44.2.6	Hours (Back Press 10 kP/cm2) without vapor return	Hours

9 UNPUMPABLES

15.45	Unpumpables tank 1 (m3)	Cu. Metres
15.46	Unpumpables tank 2 (m3)	Cu. Metres
15.47	Unpumpables tank 3 (m3)	Cu. Metres
15.48	Unpumpables tank 4 (m3)	Cu. Metres
15.49	Unpumpables tank 5 (m3)	Cu. Metres
15.50	Unpumpables tank 6 (m3)	Cu. Metres
15.51	Unpumpables tank 7 (m3)	Cu. Metres
15.52	Unpumpables tank 8 (m3)	Cu. Metres
15.53	Total Unpumpables (m3)	0 Cu. Metres

10 VAPORIZING UNPUMPABLES

15.54	Process used	
15.55	Time to vaporize liquid unpumpables remaining after full cargo discharge - Propane	Hours
15.56	Time to vaporize liquid unpumpables remaining after full cargo discharge - Butane	Hours
15.57	Time to vaporize liquid unpumpables remaining after full cargo discharge - Ammonia	Hours
15.58	Specify other cargo	
15.58.1	Time to vaporize liquid unpumpables remaining after full cargo discharge - Other	Hours
15.59	Specify other cargo	
15.59.1	Time to vaporize liquid unpumpables remaining after full cargo discharge - Other	Hours
15.60	Specify other cargo	
15.60.1	Time to vaporize liquid unpumpables remaining after full cargo discharge - Other	Hours

11 RELIQUEFACTION PLANT

15.61	Plant Design Conditions - air temperature degrees C	Degrees Celsius
15.61.1	Plant Design Conditions - sea temperature degrees C	Degrees Celsius
15.62	Is the plant single stage/direct?	
15.62.1	Is the plant two stage/direct?	
15.62.2	Is the plant simple cascade?	
15.63	Coolant type	
15.64	Compressor type	
15.64.1	Compressor makers name	
15.64.2	Number of compressors	
15.64.3	Capacity per unit	Cu. Metres/Hour
15.64.4	Are they Oil Free?	

12 COOLING CAPACITY

15.65.1	State Cooling capacity for Propane @ -42 degrees C	Kcal/Hour
15.65.2	State Cooling capacity for Propane @ -20 degrees C	Kcal/Hour
15.65.3	State Cooling capacity for Propane @ -5 degrees C	Kcal/Hour
15.66.1	State Cooling capacity for Butane @ -42 degrees	Kcal/Hour
15.66.2	State Cooling capacity for Butane @ -20 degrees C	Kcal/Hour

15.66.3	State Cooling capacity for Butane @ -5 degrees C	Kcal/Hour
13	CARGO TEMPERATURE LOWERING CAPABILITY	
15.67	Time taken to lower the temperature of:	
15.67.1.1	Propane from ... degrees C to - 42 degrees C	Degrees Celsius
15.67.1.2	Hours	Hours
15.67.1.3	Propane from -5 degrees C to - 42degrees C	Hours
15.67.1.4	Propane from -38 degrees C to - 42degrees C	Hours
15.67.1.5	Propane from +20 degrees C to - 0.5degrees C	Hours
15.67.1.6	Propane from +10 degrees C to -0.5degrees C	Hours
15.67.2.1	Butane from +20 degrees C to -0.5degreesC	Hours
15.67.2.2	Butane from +10 degrees C to -0.5degreesC	Hours
15.67.2.3	Butane from +10 degrees C to -5degreesC	Hours
15.67.3.1	Cargo	(Specify Cargo)
15.67.3.2	From	Degrees Celsius
15.67.3.3	To	Degrees Celsius
15.67.3.4	Hours	Hours
15.67.4.1	Cargo	(Specify Cargo)
15.67.4.2	From	Degrees Celsius
15.67.4.3	To	Degrees Celsius
15.67.4.4	Hours	Hours
15.67.5.1	Cargo	(Specify Cargo)
15.67.5.2	From	Degrees Celsius
15.67.5.3	To	Degrees Celsius
15.67.5.4	Hours	Hours
15.67.6.1	Cargo	(Specify Cargo)
15.67.6.2	From	Degrees Celsius
15.67.6.3	To	Degrees Celsius
15.67.6.4	Hours	Hours

15.68	Is there an emergency discharge method available?	
15.68.1	If yes, the method is:	
15.69	Sample points are provided for vapour	
15.69.1	Sample points are provided for liquid	

14	DECK TANK CAPACITIES	
15.70	Are Deck pressure tanks fitted ?	
15.71	Propane Capacity	Cu. Metres
15.72	Butane Capacity	Cu. Metres
15.73	Ammonia Capacity	Cu. Metres
15.74	Maximum allowable relief valve setting	Bar Gauge
15.75	Material of tank	

15	PRE-LOADING COOLDOWN	
15.76.1	Propane - Quantity of Coolant Required	Cu. Metres
15.76.2	Propane - Time required to cooldown cargo tanks from ambient temperature with vapour return line	Hours
15.76.3	Propane - Time required to cooldown cargo tanks from ambient temperature without vapour return line	Hours
15.77.1	Butane - Quantity of Coolant Required	Cu. Metres
15.77.2	Butane - Time required to cooldown cargo tanks from ambient temperature with vapour return line	Hours
15.77.3	Butane - Time required to cooldown cargo tanks from ambient temperature without vapour return line	Hours
15.78.1	Ammonia - Quantity of Coolant Required	Cu. Metres
15.78.2	Ammonia - Time required to cooldown cargo tanks from ambient temperature with vapour return line	Hours
15.78.3	Ammonia - Time required to cooldown cargo tanks from ambient temperature without vapour return line	Hours
15.79.1	VCM - Quantity of Coolant Required	Cu. Metres
15.79.2	VCM - Time required to cooldown cargo tanks from ambient temperature without vapour return line	Hours
15.79.3	VCM - Time required to cooldown cargo tanks from ambient temperature with vapour return line	Hours

16	VAPORISER	
15.80	Type of Vaporiser	
15.81	Number of Vaporisers fitted	
15.82.1	Capacity per unit - Propane	Cu. Metres/Hour Vapor
15.82.2	Liquid Supply Rate	Cu. Metres/Hour Liquid
15.82.3	Delivery Temperature	Degrees Celsius
15.83.1	Capacity per unit - Ammonia	Cu. Metres/Hour Vapor
15.83.2	Liquid Supply Rate	Cu. Metres/Hour Liquid
15.83.3	Delivery Temperature	Degrees Celsius
15.84.1	Capacity per unit - Nitrogen	Cu. Metres/Hour Vapor
15.84.2	Liquid Supply Rate	Cu. Metres/Hour Liquid
15.84.3	Delivery Temperature	Degrees Celsius

17	BLOWER	
15.85	Type of Blower	
15.85.1	Rated Capacity	Cu. Metres/Hour
15.85.2	Delivery Pressure	Kp/Sq. Centimetre

18	CARGO RE-HEATER	
15.86	Type of Re-Heater	
15.86.1	Number of Re-Heaters Fitted	
15.86.2	Heating Medium of Re-Heater	
15.87.1	Discharge rates with sea water at 15 degrees C to raise product temperature of Propane from -42 degrees C to -5 degrees C	Cu. Metres/Hour
15.87.2	Discharge rates with sea water at 15 degrees C to raise product temperature of Ammonia from -42 degrees C to -5 degrees C	Cu. Metres/Hour

19	HYDRATE CONTROL	
15.88	What is the type of Depressant?	
15.89	What is the freezing point temperature?	Degrees Celsius
15.90	What is the Quantity of Depressant Carried?	Liters
15.91	What is the means of injection?	
15.92	Name any other system used	
15.93	Is there an Additional pressure relief system fitted?	
15.94	Is Emergency cargo jettison provided?	
15.95	If yes, can Emergency cargo jettisoning be isolated from the cargo system when not in use?	

20 CARGO MEASUREMENT

15.96	Level Gauges	
15.96.1	Are level gauges local or remote?	
15.96.2	Name of manufacture	
15.96.3	Type	
15.96.4	Rated Accuracy	%
15.96.5	Certifying Authority	
15.96.6	Are slip tubes installed?	
15.97	Temperature Gauges	
15.97.1	Name of manufacture	
15.97.2	Type	
15.97.3	Rated Accuracy	%
15.97.4	Certifying Authority	
15.98	Pressure Gauges	
15.98.1	Name of manufacture	
15.98.2	Type	
15.98.3	Rated Accuracy	%
15.98.4	Certifying Authority	
15.99	Oxygen Analyser	
15.99.1	Name of manufacture	
15.99.2	Type	
15.99.3	What is the lowest level measurable?	%
15.100	Fixed Gas Analyser	
15.100.1	Name of manufacture	
15.100.2	Type	
15.101	Are Cargo tank calibration tables available?	
15.101.1	Name of Measuring Company	
15.101.2	Name of Certifying Authority	
15.102.1	Calibration calculated to cm?	
15.102.2	Calibration calculated to 1/2 cm?	
15.103.1	Tables established to cm?	
15.103.2	Tables established to mm?	
15.103.3	Tables established to "other"	Tables est. to (specify)
15.104	Are trim and list corrections available?	
15.105	Are temperature corrections available?	
15.106	Are float gauge tape corrections available?	

21 CARGO SAMPLING

15.107	Indicate whether cargo samples may be obtained from the levels specified:	
15.107.1.1	Cargo cargo samples be obtained from tank 1 top	
15.107.1.2	Cargo cargo samples be obtained from tank 1 middle	
15.107.1.3	Cargo cargo samples be obtained from tank 1 bottom	
15.107.2.1	Cargo cargo samples be obtained from tank 2 top	
15.107.2.2	Cargo cargo samples be obtained from tank 2 middle	
15.107.2.3	Cargo cargo samples be obtained from tank 2 bottom	
15.107.3.1	Cargo cargo samples be obtained from tank 3 top	
15.107.3.2	Cargo cargo samples be obtained from tank 3 middle	
15.107.3.3	Cargo cargo samples be obtained from tank 3 bottom	
15.107.4.1	Cargo cargo samples be obtained from tank 4 top	
15.107.4.2	Cargo cargo samples be obtained from tank 4 middle	
15.107.4.3	Cargo cargo samples be obtained from tank 4 bottom	
15.107.5.1	Cargo cargo samples be obtained from tank 5 top	
15.107.5.2	Cargo cargo samples be obtained from tank 5 middle	
15.107.5.3	Cargo cargo samples be obtained from tank 5 bottom	
15.107.6.1	Cargo cargo samples be obtained from tank 6 top	
15.107.6.2	Cargo cargo samples be obtained from tank 6 middle	
15.107.6.3	Cargo cargo samples be obtained from tank 6 bottom	
15.107.7.1	Cargo cargo samples be obtained from tank 7 top	
15.107.7.2	Cargo cargo samples be obtained from tank 7 middle	
15.107.7.3	Cargo cargo samples be obtained from tank 7 bottom	
15.107.8.1	Cargo cargo samples be obtained from tank 8 top	
15.107.8.2	Cargo cargo samples be obtained from tank 8 middle	
15.107.8.3	Cargo cargo samples be obtained from tank 8 bottom	
15.108	Can samples be drawn from tank vapour outlet?	
15.109	Can samples be drawn from manifold liquid line?	
15.110	Can samples be drawn from manifold vapour line?	
15.111	Can samples be drawn from pump discharge line?	
15.112	State sample connection type	
15.112.1	State sample connection size	Millimetres
15.113	Number of ESD actuation points	

22 CONNECTIONS TO SHORE FOR ESD AND COMMUNICATIONS SYSTEMS

15.114	Is ESD connection to shore available?	
15.114.1	If yes, is the system pneumatic?	
15.114.2	If yes, is the system electrical?	
15.114.3	If yes, is the system fiber optic?	

15.115	What is the type of plug used?	
15.116	Are ESD hoses or cables available on board?	
15.116.1	If yes, length of pneumatic	Millimetres
15.116.2	If yes, length of electrical	Millimetres
15.116.3	If yes, length of fiber optic	Millimetres
15.117	Is there a connection available for a telephone line?	
15.118	Are ESD connections available on both sides of vessel?	
15.118.1	Are ESD Fusible plugs fitted at tank domes?	
15.118.2	Are ESD Fusible plugs fitted at manifolds?	
15.119	Is the link compatible with the SIGTTO guidelines?	
15.120	Type of manifold valve	
15.120.1	Closing time in seconds	Seconds
15.120.2	Is closing time adjustable?	
15.121	Is Independent high level shut down system fitted (overflow control)?	
15.121.1	If yes, does the independent high level shutdown system also switch off running cargo pumps?	
15.122	Shut down level %	%

23 INERT GAS

15.123	Main IG Plant	
15.123.1	Type of system	
15.123.2	Capacity	Cu. Metres/Hour
15.123.3	Type of fuel used	
15.123.4	Composition of IG - oxygen	%
15.123.5	Composition of IG - CO2	%
15.123.6	Composition of IG - Nox	%
15.123.7	Composition of IG - N2	%
15.123.8	Lowest dewpoint achievable	Degrees Celsius
15.123.9	Used for	
15.124	Auxiliary IG or Nitrogen plant	
15.124.1	Type of System	
15.124.2	Capacity	Cu. Metres/Hour
15.124.3	Composition of IG - oxygen	%
15.124.4	Composition of IG - CO2	%
15.124.5	Composition of IG - Nox	%
15.124.6	Composition of IG - N2	%
15.124.7	Lowest dewpoint achievable	Degrees Celsius
15.124.8	Used for	
15.125	Nitrogen	
15.125.1	Liquid storage capacity	Cu. Metres
15.125.2	Daily boil-off loss	Cu. Metres
15.125.3	Maximum supply pressure	Kp/Cu. Cm
15.125.4	Supply capacity	Cu. Metres/Hour
15.125.5	Used for	

24 CARGO TANK INERTING/DE-INERTING

15.126	What is the time taken to inert from fresh air to under 5% O2 at -25 degree C?	Hours
15.127	What is the time taken to inert from cargo vapour to fully inert at -25 degrees dewpoint when IG density is less than product?	Hours
15.128	What is the time taken to inert from cargo vapour to fully inert at -25 degrees dewpoint when IG density is greater than product?	Hours
15.129	Do relief valves discharging liquid cargo from the cargo piping system , discharge to the cargo vent mast?	
15.129.1	If yes, is the vent mast equipped with liquid sensor and alarm?	
15.129.2	If yes, does the alarm activate the pump stop?	
15.130	Is there one ESD valve per manifold?	
15.130.1	If no, the arrangement is:	
15.131	Is a hand operated valve fitted outboard of the manifold ESD valve?	
15.132	Does inert gas piping pass through accommodation spaces, service spaces or control stations?	
15.133	Can the Inert Gas System be fully segregated from the cargo system?	
15.134	Are liquid drains fitted in cargo piping?	
15.135	Are purge points fitted?	
15.136	Are local pressure gauges fitted outboard of the manifold valves?	
15.137	Is a temperature sensor fitted at or near the manifold?	
15.138	Is a cargo compressor room fitted?	
15.140	Is protective equipment for the protection of crew members available on board?	
15.140.1	When required by the Gas Code, is respiratory and eye protection for every person on board available for emergency escape purposes?	
15.140.2	Are two additional sets of respiratory and eye protection available on the navigating bridge?	
15.141	Is there a permanently installed system of gas detection fitted?	
15.141.1	Is the gas detection system fitted with high and low sampling heads/sensors?	

25 GAS FREEING TO FRESH AIR

15.142	Plant used	
15.143	What is the time taken from fully inert condition to fully breathable fresh air?	Hours

26 CHANGING CARGO GRADES

Indicate number of hours needed to change grades from

15.144	the removal of pumpables to tanks fit to load and the quantity of inert gas consumed during the operation	
15.144.1.1	From propane to butane	Hours
15.144.1.2	From propane to butane	Cu. Metres
15.144.1.3	From propane to ammonia	Hours
15.144.1.4	From propane to ammonia	Cu. Metres
15.144.1.5	From propane to VCM	Hours
15.144.1.6	From propane to VCM	Cu. Metres
15.144.2.1	From butane to propane	Hours
15.144.2.2	From butane to propane	Cu. Metres
15.144.2.3	From butane to ammonia	Hours
15.144.2.4	From butane to ammonia	Cu. Metres
15.144.2.5	From butane to VCM	Hours
15.144.2.6	From butane to VCM	Cu. Metres
15.144.3.1	From ammonia to propane	Hours
15.144.3.2	From ammonia to propane	Cu. Metres
15.144.3.3	From ammonia to butane	Hours
15.144.3.4	From ammonia to butane	Cu. Metres
15.144.3.5	From ammonia to VCM	Hours
15.144.3.6	From ammonia to VCM	Cu. Metres
15.144.4	Restrictions	
15.144.5.1	From VCM to propane	Hours
15.144.5.2	From VCM to propane	Cu. Metres
15.144.5.3	From VCM to butane	Hours
15.144.5.4	From VCM to butane	Cu. Metres
15.144.5.5	From VCM to ammonia	Hours
15.144.5.6	From VCM to ammonia	Cu. Metres
15.144.6	Note any operations that cannot be carried out at sea	

27 CARGO MANIFOLD

15.145	Center of manifold to bow	Metres
15.146	Center of manifold to stern	Metres
15.147.1	Dimension A	Millimetres
15.147.2	Dimension B	Millimetres
15.147.3	Dimension C	Millimetres
15.147.4	Dimension D	Millimetres
15.147.5	Dimension E	Millimetres
15.147.6	Dimension F	Millimetres
15.147.7	Dimension G	Millimetres
15.147.8	Dimension H	Millimetres
15.148.1	Pipe Flange A - duty	
15.148.2	Pipe Flange A - rating	bar
15.148.3	Pipe Flange A - size	Millimetres
15.148.4	Pipe Flange A raised or flat face	
15.149.1	Pipe Flange B - duty	
15.149.2	Pipe Flange B - rating	bar
15.149.3	Pipe Flange B - size	Millimetres
15.149.4	Pipe Flange B raised or flat face	
15.150.1	Pipe Flange C - duty	
15.150.2	Pipe Flange C - rating	bar
15.150.3	Pipe Flange C - size	Millimetres
15.150.4	Pipe Flange C raised or flat face	
15.151.1	Pipe Flange D - duty	
15.151.2	Pipe Flange D - rating	bar
15.151.3	Pipe Flange D - size	Millimetres
15.151.4	Pipe Flange D raised or flat face	
15.152.1	Pipe Flange E - duty	
15.152.2	Pipe Flange E - rating	bar
15.152.3	Pipe Flange E - size	Millimetres
15.152.4	Pipe Flange E raised or flat face	
15.153.1	Pipe Flange F - duty	
15.153.2	Pipe Flange F - rating	bar
15.153.3	Pipe Flange F - size	Millimetres
15.153.4	Pipe Flange F raised or flat face	
15.154.1	Pipe Flange G - duty	
15.154.2	Pipe Flange G - rating	bar
15.154.3	Pipe Flange G - size	Millimetres
15.154.4	Pipe Flange G raised or flat face	
15.155.1	Pipe Flange H - duty	
15.155.2	Pipe Flange H - rating	bar
15.155.3	Pipe Flange H - size	Millimetres
15.155.4	Pipe Flange H raised or flat face	
15.156	Height above uppermost continuous deck	Millimetres
15.157	Distance from ship side	Millimetres
15.158	Height above load waterline	Millimetres
15.159	Height above light waterline	Millimetres

28 MANIFOLD ARRANGEMENT LOCATED ON TOP OF COMPRESSOR

15.160	Distance from rail of compressor room/platform to presentation flanges	Millimetres
15.161	Distance from deck of compressor room/platform/try to centre of manifold	Millimetres

29 CARGO MANIFOLD REDUCERS

15.162.1	Number of ANSI Class 300 reducers carried onboard	
15.162.2	Flange rating of ANSI Class 300 reducer	bar
15.162.3	Size of ANSI Class 300 reducer	Millimetres
15.162.4	Length of ANSI Class 300 reducer	Millimetres

15.163.1	Number of ANSI Class 300 to Class 150 reducers carried onboard	
15.163.2	Flange rating of ANSI Class 300 to Class 150 reducer	bar
15.163.3	Size of ANSI Class 300 to Class 150 reducer	Millimetres
15.163.4	Length of ANSI Class 300 to Class 150 reducer	Millimetres
15.164.1	Number of ANSI Class 150 reducers carried onboard	
15.164.2	Flange rating of Class 150 reducer	bar
15.164.3	Size of ANSI Class 150 reducer	Millimetres
15.164.4	Length of ANSI Class 150 reducer	Millimetres

16 Chapter 16

1 OBO / OO /COB CARRIERS

16.1	State design of hatches
16.2	State type of hatches (side rolling/butterfly/other)
16.3	State if hatches fitted with single or double seals in hatch coaming
16.4	Last date cargo holds/tanks were tested to normal working pressure (min.500mm wg) to prove gas tightness of hatches
16.5	Were the hatches proven to be gas tight?