Company	CableLabel	Category	Group	Item	:Label	Field Connection Filter	Unit Min	Max ZoneMin ZoneMax
Column		FT NavVision	Fuses	Fuse Engine Room Alarms 1	Fuse Engine Room Alarms 1	AlarmNetworkCableA0Fld NO	Aiarm	0 1
Company	FT-APER	Alarm Panels	Alarm Panel Engine Room	Alarm FLASH LIGHT	Alarm	AlannProVisualOutputEngineRoomACing NO		0 1
March Marc	FT-APER	Alarm Panels	Alarm Panel Engine Room	Dim SWITCH	Dim	AlarmProDimSwitchEngineRoomACmd NO	Status	0 1
The content of the	FT-ER39	FT NavVision	Networking	Network Switch 1 Engine Room Alarm	Network Switch 1 Engine Room Alarm	AlarmNetworkCable32Fld NC	Aisem	Q
	PT-APER	Alarm Panels	Alarm Panel Engine Room	Alarm LED	Alarm	AlarmProInAlarmEngineRoomACmd NO	Switch	ō i
The state of the content of the co	FT APER	Alxon Panels	Alarm Panel Engine Room	Station Active LED	Station Active	AlarmProActiveEngineRoomACmd NO	Switch	0 I
March	FT-ER12	Bilge	Blige Alarms	Blige Alarm Engine Room PS	Bilge Alarm Engine Room PS	AlarmBilgeEngineRoom1Fld NC	Álárm	0 1
The content of the	FY-ER26	Silge	Binge Alarms	Bilgs Pump Main Aunning	- Bage Pump Main Running	98gePump1Cmd NC	Status	
# 1	FT-ERZ5	Compressors	Air Compressor	Air Compressor Rusning	Air Compressor Running	EorepressorCmd NC	Status	
The content of the	FT-ER36	ffydraulic	Fower Pack	Power Pack Officevel	Power Pack Oil Level	HydraulicPowerPackACDis.evelFld NC	Alarm	Ž
March Marc	FT-ER27	Hydraulic	Power Fack	Power Fack Russing	Fower Pack Russing	htydraulicPowerPackACRunningFid NC	Status	Ž
The content of the	PT-ER35	Tanks	Fuel Tanks	Day Tank Level SB (8)	Day Tank Level SB (8)	FuelDayTanksevel2Fid NC	Alarm	Ž
Column	FT-ER43	7anks	Fuel Tanks	Fuel Tank SE Level SB (2)	Fosi Tarik 5£ Level 58 (2)	FuelTankLevel8Fld NC	Alarm	Ž
March Marc	FT-E837	Tanks	Oil Tanks	Sludge Tank Level	Sjudge Tank Level	SludgeTankLeve(1Fld NC	Alarm	Ž į
The content of the	1			i			Augiter 64	8 888
Section Sect	FT-ERZ9	Tanks	Euel Tacks	Day Tank Level SB (6)	Day Tank Level SB (8)	FuelDayTankLevel2fid NO	%	0 100
Section Sect	FT-ER31	Tanks	Fuel Tenks	Fuel Tank SE Level SB (2)	Fuel Tank SE Level S8 (2)	FuelTankLevel8Fld NO	. Š	0 100
March Marc	FT-ER52	Propulsion	Starboard Engine	Engine Starboard Shaft Temperature	SB Eng Shaft	EngineShaftTemperature2Ftd NO	*¢	
March Marc	FT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Cos Phi L1	AC Bus A Cos Pin L1	BusharACL1CosPhiAFid NO	Phi	ő Í
Part	FT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Cos Phi L3	AC Bus A Cos Phi L3	BusbarACL3CosPhiAFid NO	Phy	ğ ji
March Marc	PT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Current Average	AC Bus A Avg	BusbarACCurrentAFid NO	Α	0 190
March Marc	FT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Current L1	AC Bus A £1	BusbarACPhaseL1CurrentAFid NO	A	0 150
Part	FT-ER50	Electrical Systems	Busbar AC A	AC Busber A Current L2	AC Bus A L2	BusbarACPhaseL2CurrentAFid NO	Ā	0 150
Property	FT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Current L3	AC Bus A L3	BusbarACPhaseL3CurrentAFid NO	A	0 150
Part Company	FT-ERSO	Electrical Systems	Busbar AC A	AC Busbar A Power Apparent 11	AC Bus A App L1	BusbarACL1ApperentPowerAFId NO	kW	Ď 25
Part	FT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Power Apparent L3	AC Bus A App L3	BusharACL3ApparentPowerAFtd NO	kW	
Fig.	FT-ER50	Electrical Systems	Busber AC A	AC Busbar A Power L1	AC Sus A L1	BusbarACL1PowerAFld NO	kW	
Brief State Stat	FT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Power (3	AC Bos A £3	BusharACL3PowerAFId NO	kW.	§ - \$ 1
Second State Seco	FT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Power Reactive L2	AC Bus A React L2	BusbarACL2ReactivePowerAPId ;NO	kW.	0 25 25 25 25 25 25 25 25 25 25 25 25 25
Section Section Company Comp	FT-ER50	Electrical Systems	Susbar AC A	AC Busbar A Power Total	AC Bus à Total	BusbarACPowerAFld NO	k₩	0 75
First Firs	FT-ER50	Electrical Systems	Busbar AC A	AC Bushar A Voltage (1-)2	AC 8us A L1-L2	BusbarACL112VoitageAFld NO		50: 440
Property Common Statemen	FT-ER50	Electrical Systems	Busbar AC A	AC Busbar A Voltage L2-L3	AC Bus A LZ-L3	BusharACL2i,3VottageAFId NO	¥ 36	50 440
Property Company Com	FT-ERSO	Electrical Systems	Busbar AC A	AC Busbar A Voltage £3-£1	AC Bus A L2 AC Sus A L3-L1	BusharACL3E1VottageAFId NG	y 36	50 446
Part	FT-ER19	Generators	Generator Fort	Generator Port Coolant Temperature	PS Gen Coolant	DusbarACPhaseL3VoltageAFld NO GeneratorCoplantTemperature1Fld NO	e.C	0 120
## 14 Page 12	FT-ER19 FT-ER19	Generators	Generator Port	Generator Port Hours	PS Gen Fuel PS Gen Hours	GeneratorHourstFld NO	H H	0 1500000
Part Comment	FT-ERI9	Generators	Generator Port	Generator Port Gil Pressure	PS Gen Gil	GeneratorOjiPressure1Fid NO		0 10
March Security S	FT-ER19	Generators	Generator Port	Generator Port Starter Battery Voltage	PS Gen Start Batt	Generator Voltage 1 Fld NO	rpm V	18 32
Common	FT-ER19 FT-ER20	Generators Generators	Generator Port Generator Starboard	Generator Port Throttle Position Generator Starboard Cociant Temperature	PS Ges Threttie SB Gen Coolent	Generator Throttle1Fid NO Generator Coolant Temperature2Fld NO	% °C	0 100 0 120
Part Common Com	FT-ER20 F1-ER20	Generators	Generator Starboard Generator Starboard	Generator Starboard Fuel Rafe Generator Starboard Hours	S8 Gen Feel S8 Gen Hours	GeneratorFuelRate2Fid NO GeneratorHours2Fid NO	L/H H	0: 100000G
Part Communication Commu	FT-ER20	Generators	Generator Starboard	Generator Starboard Oil Pressure	S8 Gen Oil	GeneratorOilPressure2Fld NO	‰ B	0 10
Formation Common Annual Properties Annual Properties Common Annual Pr	FT-ER20 FT-ER20	Generators Generators	Generator Starboard Generator Starboard	Generator Starboard RPM Generator Starboard Starter Battery Voltage	SB Gen SB Gen Start Batt	GeneratorRom2Fld NO GeneratorVoltage2Fld NO	lesu 1	(8 32
Fig. 12 Projection Prof. Cont. Fig. 12	FT-ERZO FT-ER17	Gerierators Propulsion	Generator Starboard Port Engine	Generator Starboard Throttle Position	S8 Gen Throttle PS Eng Avg Fuel	GeneratorTkrottle2Fld NO EnginePuelRateAvg1Fld NO NO		0 500
Property	FT-ER17	Propulsion Propulsion	Port Engine Port Engine	Engine Port Sattery Voltage Engine Port Cociant Level	PS Eng Battery PS Eng Coolant	EngineVoltage(Pid NO EngineCoolant(eyel(Pid NO		5 32 0 100
Fig. 22	FT-ER17	Propulsion	Port Engine	Engine Port Coolant Temperature	PS Eng Cociant PS Eng Des RPM	EngineCoolantTemperature1Fld NO EngineDesiredRPM1Fld NO	C RPM	0 3000
Processor	FT-ER17	Propulsion Propulsion	Port Engine	Engine Port ECU Power Supply Voltage	PS Eng ECU	EngineECtVoltage1Fld NO EngineFuelRate1Fld NO	Vdc 1	8 32
Fig. Production	FY-ER17	Propulsion	Port Engine	Engine Port Fuel Pressure	PS Eng Gear Off	EngineFueiPressure1Fld NO EngineGearOilPressure1Fld NO	8ar	0 10 0 25
Fig. 12 Projection Prof. States Project Projec	FT-ER17	Propulsion	Port Engine	Engine Port Gear Oil Temperature	PS Eng Gear Oit PS Eng Hours	EngineGearOifTemperature1Fld NO EngineHours1Fld NO	ic.	0 1000000
Fig. 22	FT-ER17	Propulsion	Port Engine	Engine Port Inlet Air Pressure	PS Eng Intet Air PS Eng Manifold	EngineAirPressure1Fld)NO	6ar C	0 10
Feb. Procession Proc. Earne Econe Series Proc. Earne Econe Series Proc. Earne Econe Series Proc. Earne Econe Series Econe Seri	FT-ER17	Propulsion	Port Engine	Engine Port Load	PS Eng Load	EngineLoad)Flg NO EngineOilPressure1Fld NO NO	% Eas	0 100 0 10
February Sectional From Sectional	FT-ER17	Propulsion	Port Engine	Engine Port Speed	PS Eng Total Fire!	EngineRpm1Fld NO SagneTotalFisef1Fld NO MO	RPM	0 3000
Fig. 12	FT-ER18	Propulsion	Starboard Engine	Engine Starboard Average Fuel Rate	SS Eng Avg Fuel	EngineFuelRateAvg2Fld NO		0 500
Processing Pro	FT-ER18	Propulsion	Starboard Engine	Engine Starboard Coolant Level	ISS Eng Coolant	EngineCoolantLevel2Fld NO		0 1
Fig. 12	FT-ER18	Propulsion	Starboard Engine	Engine Starboard Desired RPM	SS Eng Des RPM	EngineDesiredRPM2Fld NO		0: 3000
Friend	FT-ER18	Propulsion	Starboard Engine	Engine Starboard Fuel Comeumption	S8 ling Fuel	EngineFuelRate2Fld NO :	L/H	d) 500
Februaries Standower Emprise Engine Standower Grower Standower Stand	FT-ER18	Propulsion	Starboard Engine	Engine Starboard Gear Oil Pressure	SB Erig Gear Oil	EngineGearORPressure2Fld NG		0 25
Probation	F1-ER18	Propulsion	Starboard Engine	Engine Starboard Hours	S8 Eng Hours	Enginemours2Fld NO	H	
Free Free Free Free State	FT-ER18	Propulsion	Starboard Engine	Engine Starboard Intake Manifold Temperature	SS Eng Manifold	EngiteManifoldTemperature2Fld NO	. jc	
Frequency External Systems Enternal Standard Train Enternal Systems Enternal Sy	F7-ER18	Probuision	Starboard Engine	Engine Starboard Oil Pressure	SS Eng Oil	EngineOiPressure2Fld NO	Bar	0 10
Freinis	FT-ER18	Propulsion	Starbeard Engine	Engine Starboard Total Fuel Used	SS Eng Total Feel	EngineTotalFisel2Fld NO	1	
F-B51	FT-ERS1	Electrical Systems	Busbar AC B	AC Busbar B Cos Phi L1	AC Bus & Cos Phi L1	BusbarACL1CosPhiBFid NO	Phi	ő 1
FireBis Electrical Systems Busbar AC B AC Busbar B Power Apparent 1.	FY-ER51	Electrical Systems	Busbar AC B	AC Busbar B Cos Phi L3	AC Bus B Cos Phi L3	BusbarACL3CcsPhiBFld NO	9hi	0 1 0 1
FireR51 Electrical Systems Busbar AC B AC Busbar B Power Apparent I S AC Bus B Pop I S Electrical Systems Busbar AC B AC Busbar B Power Apparent I S AC Bus B Pop I S Electrical Systems Busbar AC B AC Busbar B Power I S A	FT-ERS)	Electrical Systems	Busbar AC B	AC Busbar & Power Apparent L1	AC Sus 8 App L1	BusbarACL1ApparentPower8Fld NO	k₩	
FF-RE5 Electrical Systems Busbar AC B	FT-ER51	Electrical Systems	Busbar AC B	AC Busbar B Power Apparent L3	AC Bus B App L3	BusbarACL3ApparentFowerBFld NO	κW	0 25 25
FT-ER51 Electrical Systems Busbar AC B	FY-ER51	Electrical Systems	Busbar AC B	AC Busbar 8 Power LI	AC Bus 6 L1	BusbarACL1PowerBPid NO	k₩	
FT-ER51 Electrical Systems Gusbar AC B AC Busbar 5 Power Reactive 1, AC Bus 5 React L.1 BusbarACLReactivePowerPiff NO KW 0 25	FT-ER51	Electrical Systems Electrical Systems	Busbar AC B	AC Busbar B Power L3	AC Bus B L3	BusbarACL3PowerBFld NO	k∜y	C 25
TF-BRS. Electrical Systems Busbar AC B AC Busbar B-Power Total AC Bus B Total Busbar AC-PowerBFIE NO V 560 75	FT-ER51	Electrical Systems	Susbar AC B	AC Busbar & Power Reactive L2	AC Bus 8 React L2	BusbarACL2ReactivePowerBFld NO	k₩	
FT-ERS	FT-ER51	Electrical Systems	Busbar AC B	AC Busbar B Power Total	AC Bus B Total	BusbarACPowerBFld NO	kW	0 75
FT-ERS Electrical Systems Susbar AC B AC Busbar B Voltage (2-13) AC Bus B (2-14) Busbar AC, Except (2-14) NO V 150 446 FT-ERS Electrical Systems Busbar AC B AC Busbar B Voltage (2-14) AC Bus B (12) Busbar AC, Except (2-14) Busbar AC B AC Busbar B Voltage (3-14) AC Bus B (12) Busbar AC, Except (2-14)	FT-ERS1	Electrical Systems Electrical Systems	Busbar AC B	AC Busbar B Voltage L1-L2	AC 8us 8 t.1-t.2	BusbarACL11,2VoitageBFld NO	1V 36	0 440 0 440
FT-ER5 Electrical Systems Busbar AC B	FT-ERS1 FT-ERS1	Electrical Systems Electrical Systems	Busbar AC B Busbar AC B	AC Busbar B Voltage £2-£3	AC Bus 8 L2 AC Bus 8 L2-L3	BusbarACPhaseL1VoltageBFid NO BusbarACL2L3VoltageBFld NO	V 36	0 440
FT-ERS1	FT-ER51 FT-ER51	Electrical Systems Electrical Systems	Busbar AC & Busbar AC &	AC Bustar B Voltage 12-N AC Bustar B Voltage 13-11	AC Bus 8 LZ AC Bus 8 L3-L1	BusterACPhaseL2VoltageBFld NO BusbarACL3L1VoltageBFld NO	V 18	0 268 0 440
FT-APAZ Alarm Panels Alarm Panel Lazarette Alarm BUZZER Alarm Buzzerte Alarm Bu	FT-ERS1	Electrical Systems	Busbar AC B	AC Busbar B Voltage L3-N	AC Bus B i.3	BusbarACPhaset.3voltageBfid NO AlarmNetworkCable44Fld NO	V 18 Alarm	© 260 Q 1
FT-APIAZ Alarm Panels Alarm Panel Lazarette Dim SVITCH Dim AlarmProDimSenorRoomRoomRoomRoomRoomRoomRoomRoomRoomRo	FT-APLAZ	Alarm Panels Alarm Panels	Alarm Panel Lazarette Alarm Panel Lazarette	Alarm BUZZER Activate And Lamp Test SWITCH	Alarm	AlarmProAudibleOutputEngineRoomCmd NO AlarmProActivateEngineRoomCmd NO	Switch Status	e 1 0 1
FT-LAZ59 FT NavVision Networksmc Network Switch Lazarette Alarm Network Switch Lazarette Alarm Alarm Paries Alarm Paries Alarm Paries Alarm Paries Alarm Elegant Director No. 5 Switch 0 1 Alarm Paries Alarm Paries Alarm Paries Alarm Paries Director No. 5 Switch 0 1 Alarm Paries Alarm Paries Alarm Paries Director No. 5 Switch 0 1 Alarm Paries Alarm Paries Alarm Paries Alarm Paries Alarm Paries No. 5 Switch 0 1 Alarm Paries Alarm Paries Alarm Paries No. 5 Switch 0 1 Alarm Paries Alarm Paries No. 5 Switch 0 1 No. 5 Switch 0 1 No. 5 Switch 0 1 No. 5 Switch 0 N	FT-APLAZ	Alarm Panels	Alarm Panel Lazarette	Distri SWITCH	Distri	AlarmProDimSwitchEngineRoomCmd NO AlarmProAcknowledgeEngineRoomCmd NO	Status	0 1
FLAPIAZ Alarm Panels Alarm Panel Lazarette Dim LED Dim Alarm Panels Al	FT-LAZ59	FT NavVision	Networking	Network Switch Lazarette Alarm	Network Switch Lazarette Alarm	AlarmNetworkCable34Fld NC	Alarm	0 1
FT MavYision Fuses Fuse Lazarette Alarma 2 Fuse Lazarette Alarma 2 AlarmaNetwork.Cabite45Fld NO Alarm 0 1 Rich Alarma Caracter De Company Comp	FY-APLAZ	Alarm Panels	Aların Panel Lazarette	Dim LED	Dim	AlarmProDimiLEDEngineRoomCrnd NO AlarmProActiveEngineRoomCrnd NO	Switch	0 1
FT-IAZI2 Bilge Bilge Alarms Bilge Alarm Lazarette SB Bilge Alarm Lazarette SB AlarmBilgesFfd NC Alarm 0 1	PT-1 A 711	FT NavVision	Fuses	Fuse Lazarette Alarms 2 Bioe Alarm Lazarette PS	Fuse Lazarette Alarms 2 Bilge Alarm Lazarette PS	AlarmNetworkCable4SFId NO AlarmBilde1Fld NC	Alarm	Ö 1 G 1
	FT-LAZ12	Bifge		Bitge Aların Lazarette SB	Bilge Alarm Lazarette SB	∏AlarmBilgeZFId NC	Afarm	ō i i i

Lloyd's Register EMEA
A member of the Lloyd's Register group

Design Support, Rotterdam Office

EXAMINED

This plan has been examined and given the status as shown in the Design Appraisal Document (DAD) number below

DAD Number:

09.E.513

Date: 11-08-2009 Initials: AWV



This document has been processed electronically and it is therefore valid without any signature.