



Lloyd's
Register

Lloyd's Register EMEA (London Office)

Marine Technology & Engineering Services

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DESIGN APPRAISAL DOCUMENT

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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2017.

Issued to: DESMI Ocean Guard A/S

for: CompactClean BWMS CC-35 to CC-3000

TYPE APPROVAL CERTIFICATE No. 19/00007

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2017 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Document No.	Rev.	Title	Date
161335	A.9	Operations Maintenance and Safety Manual for Compact Clean DESMI Ocean Guard	10.01.2019

ENG

Document No.	Rev.	Title	Date
141989	0	Finite Element Analysis Report UV Body M 340 FDA CC333G	24.09.2018
141991	0	Finite Element Analysis Report UV Body M 1000 FDA CC333G	24.09.2018
142009	0	Finite Element Analysis Report UV Body M 135 FDA CC333G	24.09.2018
142010	0	Finite Element Analysis Report UV Body M 500 FDA CC333G	24.09.2018
142011	A.5	UV Body M 750 FDA CC333G	24.09.2018
142011	0	Finite Element Analysis Report UV Body M 750 FDA CC333G	24.09.2018
142012	A.2	UV Body M 1500 FDA CC333G	24.09.2018
142012	0	Finite Element Analysis Report UV Body M 1500 FDA CC333G	24.09.2018
142023	-	Spool 050 FZV 3.1	24.09.2018
142054	A.4	UV Body R 1000 FDA CC333G	24.09.2018
142055	A.6	UV Body R 1500 FDA CC333G	24.09.2018
142068	A.4	Flow Column L=540mm CC333G	24.09.2018
142086	A.2	Flow Column L=530mm CUTS CC333G	24.09.2018
142087	A.1	Cover Flange CUTS CC333G	24.09.2018
142127	B	CUP for UV Lamp EN 1.4460/1.4462	24.09.2018
142128	A	CUP for UV Lamp EN 1.4460/1.4462	24.09.2018
142154	-	CC Warning Sign 83x130	24.09.2018
142266	A.2	UV Body R 135 FDA CC333G	24.09.2018
142267	A.2	UV Body R 500 FDA CC333G	24.09.2018
142268	A.1	UV Body R 750 FDA CC333G	24.09.2018
441354	G	UV Unit 135 M3/H	24.09.2018
441355	E	UV Unit 340 M3/H	24.09.2018
441356	B	UV Unit 500 M3/H	24.09.2018



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441358	E	UV Unit 1000 M3/H	24.09.2018
441359	A	UV Unit 1500 M3/H	24.09.2018
441366	G	BWMS CC 135 NEX EAN LCD NOP	24.09.2018
441367	G	BWMS CC 340 NEX EAN LCD NOP	24.09.2018
441368	H	BWMS CC 500 NEX EAN LCD NOP	24.09.2018
441369	G	BWMS CC 750 NEX EAN LCD NOP	24.09.2018
441370	G	BWMS CC 1000 NEX EAN LCD NOP	24.09.2018
441370	-	BWMS 1000 M3/H E LCD FDA	24.09.2018
441371	K	BWMS CC 1500 NEX EAN LCD NOP	23.01.2019
441388	-	PB Illustrated BOM 441388 BWMS 340 M3pH Container	24.09.2018
441388	-	Arr. BWMS 340 M3/H 8 x 6kW	24.09.2018
441392	E	UV Lamp Assembly L=540mm	24.09.2018
441421	-	BWMS 1000 M3/H E LCD MPN	24.09.2018
441433	-	Arr. BWMS 340 M3/H 6 x 6kW	24.09.2018
441434	E	UV Lamp Assembly L=530mm	24.09.2018
441437	A	Spool for CIP Tank	24.09.2018
441453	E	UV Lamp Assembly L=367mm	24.09.2018
441475	E	UV Lamp Assembly L=550mm	24.09.2018
441480	H	BWMS CC 135 NEX EAN SKM FZV	24.09.2018
441481	F	BWMS CC 340 NEX EAN SKM FZV	24.09.2018
441482	G	BWMS CC 500 NEX EAN SKM FZV	24.09.2018
441483	F	BWMS CC 750 NEX EAN SKM FZV	24.09.2018
441484	F	BWMS CC 1000 NEX EAN SKM FZV	24.09.2018
441485	J	BWMS CC 1500 NEX EAN SKM FZV	23.01.2019
441755	-	BWMS CC 35 NEX EAN LCD NOP	23.01.2019
441756	A	BWMS CC 55 NEX EAN LCD NOP	23.01.2019
441757	-	BWMS CC 87 NEX EAN LCD NOP	23.01.2019
441758	-	BWMS CC 190 NEX EAN LCD NOP	23.01.2019
441759	A	BWMS CC 255 NEX EAN LCD NOP	23.01.2019
441760	-	BWMS CC 2000 NEX EAN LCD NOP	23.01.2019
441761	-	BWMS CC 2500 NEX EAN LCD NOP	23.01.2019
441762	-	BWMS CC 3000 NEX EAN LCD NOP	23.01.2019
470250	G	P&ID Piping and Instrumentation diagram CompactClean™ BWMS 13.5-1500 m³/h	24.09.2018
470251	0	P&ID Piping and Instrumentation diagram CompactClean™ BWMS 2000-3000 m³/h	24.09.2018
A143510/4	4	Ballast Water Filter Type ACB-903-65	24.09.2018
A143520/4	4	Ballast Water Filter Type ACB-904-80	24.09.2018



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Document No.	Rev.	Title	Date
A143530/6	6	Ballast Water Filter Type ACB-906-100	24.09.2018
A143540/4	4	Ballast Water Filter Type ACB-910-150	24.09.2018
A143550/4	4	Ballast Water Filter Type ACB-915-150	24.09.2018
A143560/3	4	Ballast Water Filter Type ACB-935-200	24.09.2018
A143570/5	4	Ballast Water Filter Type ACB-945-200	24.09.2018
A143580/5	5	Ballast Water Filter Type ACB-955-250	24.09.2018
A143590/5	5	Ballast Water Filter Type ACB-985-300	24.09.2018
A143600/6	6	Ballast Water Filter Type ACB-999-350	24.09.2018
A151890/1	1	Ballast Water Filter Type ACB-9100-400	24.09.2018
A153760/1	1	Ballast Water Filter Type ACB-9120-500	24.09.2018
A153770/1	1	Ballast Water Filter Type ACB-9200-600	24.09.2018
Fluka - 83359	5.6	Sigma-Aldrich Mercury Safety Data Sheet	24.09.2018
MEC 00002	7	Requirement Specification Piping Systems in steel used for Ballast Water Treatment Systems	24.09.2018
MEC 00011	A	Requirement Specification Non-Return Valves Wafer Type Ballast Water Treatment Systems	24.09.2018
MEC 00012	0	Requirement Specification Non-Return Valves threaded Ballast Water Treatment Systems	24.09.2018
MEC 00026	4	Requirement Specification Butterfly Valves to be installed in Ballast Water Treatment Systems	24.09.2018
MEC 00027	0	Requirement Specification Manufacturing of pressure equipment UV Unit CompactClean™ BWMS	24.09.2018
MEC 720876	0	Requirement Specification UV Lamp DESMI 6kW NQ CompactClean™	24.09.2018
MEC 721666	0	Requirement Specification UV Lamp DESMI 6kW SQ CompactClean™	24.09.2018
MEC 721667	-	Requirement Specification UV Lamp DESMI 4kW SQ CompactClean™	24.09.2018
OMM.73	12	Filtrex ACB Operating and Maintenance Manual	24.09.2018
QSG.73	3	Filtrex ACB Installation & Commissioning	24.09.2018
-	1.1	Acetic Acid, 30% v/v (3+7) Safety Data Sheet	24.09.2018
-	-	Installation, operation and maintenance manual 3-pcs. ball-valve Serie 83/88	24.09.2018
-	-	Installation and maintenance manual UV Unit	24.09.2018
-	-	Installation and maintenance manual UV-Lamp Assembly	24.09.2018
-	-	Installation and maintenance manual Junction Box - UC02	24.09.2018
-	-	Installation and maintenance manual UV-Sensor assembly	24.09.2018
-	-	Installation and maintenance manual Water level Sensor	24.09.2018
-	-	Installation and maintenance manual Temperature Sensor	24.09.2018
-	-	Installation and maintenance manual Filter	24.09.2018
-	-	Installation and maintenance manual Pressure Sensor	24.09.2018
-	-	Installation and maintenance manual Stripping/Backflush	24.09.2018

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Document No.	Rev.	Title	Date
-	-	pump	
-	-	Installation and maintenance manual Main panel – UC01	24.09.2018
-	-	Installation and maintenance manual Frequency converter	24.09.2018
-	-	Installation and maintenance manual External control box	24.09.2018
-	-	Installation and maintenance manual Flowmeter	24.09.2018
-	-	Installation and maintenance manual Ball Valve	24.09.2018
-	-	Installation and maintenance manual Sample Pipe	24.09.2018
-	-	Installation and maintenance manual CIP Unit	24.09.2018
-	-	Installation and maintenance manual External HMI (optional)	24.09.2018

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Document No.	Rev.	Title	Date
441403	-	FC Circuit diagram 441403-MD-A1 - 12 ELC (ID 158563)	18.09.2018
470252	0	FA Cable overview 470252 BWMS COMPACTCLEAN (ID 157914)	18.09.2018
ITQ0160-90000-F	-	FS Circuit diagram ACTUATOR ITQ0160-90000 DC24V (ID 158386)	18.09.2018
441354	G	UV UNIT 135 M3{2}H (ID 160690)	18.09.2018
441355	E	UV UNIT 340 M3pH (ID 158062)	18.09.2018
441355	B	TC Component Drawing 441355 UV UNIT 340 M3pH FDA (ID 158062)	18.09.2018
441356	B	UV UNIT 500 M3{2}H (ID 161005)	18.09.2018
441358	D	UV UNIT 1000 M3pH (ID 158063)	18.09.2018
441358	B	TC Component Drawing 441358 UV UNIT 1000 M3pH FDA (ID 158063)	18.09.2018
441359	A	UV UNIT 1500 M3pH (ID 158603)	18.09.2018
441359	-	TC Component Drawing 441359 UV UNIT 1500 M3pH FDA (ID 158603)	18.09.2018
441366	G	GA CC 135 NEX EAN LCD NOP (ID 158677)	18.09.2018
441367	G	GA CC 340 NEX EAN LCD NOP (ID 158321)	18.09.2018
441368	H	GA CC 500 NEX EAN LCD NOP (ID 158646)	18.09.2018
441369	G	GA CC 750 NEX EAN LCD NOP (ID 158769)	18.09.2018
441370	G	GA CC 1000 NEX EAN LCD NOP (ID 158082)	18.09.2018
441370	-	TL Arrangement Drawing 441370 BWMS 1000 M3_H FDA LCD (ID 158082)	18.09.2018
441371	H	GA CC 1500 NEX EAN LCD NOP (ID 158771)	18.09.2018
441388	-	TL Arrangement Drawing 441388 BWMS 340 M3_H FDA CNS (ID 157906)	18.09.2018
441393	E	JUNCTION BOX 135 M3{2}H (ID 158312)	18.09.2018



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441394	E	JUNCTION BOX 340 M3{2}H (ID 158313)	18.09.2018
441395	E	JUNCTION BOX 500 M3{2}H (ID 158314)	18.09.2018
441396	G	JUNCTION BOX 750 M3{2}H (ID 158315)	18.09.2018
441397	G	JUNCTION BOX 1000 M3pH (ID 158316)	18.09.2018
441397	C	JUNCTION BOX 1000 M3{2}H (ID 158316)	18.09.2018
441398	H	JUNCTION BOX 1500 M3{2}H (ID 158311)	18.09.2018
441421	-	TL Arrangement Drawing 441421 BWMS 1000 M3_H MPN LCD (ID 158081)	18.09.2018
441424	B	TC Component drawing 441424 UV UNIT 340 M3pH MPN (ID 158066)	18.09.2018
441427	B	TC Component drawing 441427 UV UNIT 1000 M3pH MPN (ID 158065)	18.09.2018
441433	-	TL Arrangement Drawing 441433 BWMS 340 M3_H MPN CNS (ID 158079)	18.09.2018
441458	A	MAIN PANELS (ID 158467)	18.09.2018
441480	H	GA CC 135 NEX EAN SKM FZV (ID 159033)	18.09.2018
441481	F	GA CC 340 NEX EAN SKM FZV (ID 159034)	18.09.2018
441482	G	GA CC 500 NEX EAN SKM FZV (ID 159030) (1)	18.09.2018
441482	G	GA CC 500 NEX EAN SKM FZV (ID 159030)	18.09.2018
441483	F	GA CC 750 NEX EAN SKM FZV (ID 158842)	18.09.2018
441484	F	GA CC 1000 NEX EAN SKM FZV (ID 159037)	18.09.2018
441485	H	GA CC 1500 NEX EAN SKM FZV (ID 159038)	18.09.2018
470250	D	FB PID 470250 BWMS COMPACTCLEAN FDA 13.5-1500_1 (ID 158155)	18.09.2018
470250	i	FB PID and Cable Plan 470250 BWMS CC 35 - 1500 (ID 158155)	18.09.2018
470251	0	FB PID and Cable Plan 470251 BWMS CC 2000 3000 (ID 160753)	18.09.2018
470253	0	FB PID 470253 BWMS COMPACTCLEAN MPN 13.5-1500 (ID 158152)	18.09.2018
AQA 001009	5	INSTRUCTION Control of circuit diagrams, control programs and set parameters for BWMS controls.	18.09.2018
ITQ-IMM-04-A	-	DC OMSM Actuator ITQ-100 to 9000 (ID 158385)	18.09.2018
ITQ-M0101-0020	-	DC Unsers Instruction OMSM Actuator ITQ 0020 (ID 158383)	18.09.2018
OMM.73	12	OMSM Filter Filtrex USCG-IMO (ID 158837)	18.09.2018
Unnumbered	-	DA Data Sheet Accuracy Confirmation Promag50-53-400_2014 (ID 50506) (Dated 07.07.2014)	18.09.2018
Unnumbered	-	DA Data Sheet Pressure transmitter (ID 10054)	18.09.2018
Unnumbered	-	DA Datasheet 6ES75455DA000AB0_en (ID 161382)	18.09.2018
Unnumbered	-	DA Datasheet 6AV21818XP000AX0_en (ID 161371)	18.09.2018
Unnumbered	-	DA Datasheet 6ES71316BF010BA0_en (ID 161375)	18.09.2018
Unnumbered	-	DA Datasheet 6ES71316BH010BA0_en (ID 161374)	18.09.2018

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Document No.	Rev.	Title	Date
Unnumbered	-	DA Datasheet 6ES71326BF010BA0_en (ID 161380)	18.09.2018
Unnumbered	-	DA Datasheet 6ES71326BH010BA0_en (ID 161378)	18.09.2018
Unnumbered	-	DA Datasheet 6ES71326GD500BA0_en (ID 161379)	18.09.2018
Unnumbered	-	DA Datasheet 6ES71556AU000BN0_en (ID 161377)	18.09.2018
Unnumbered	-	DA Datasheet 6ES71936BP000DA0_en (ID 161372)	18.09.2018
Unnumbered	-	DA Datasheet 6ES71936PA000AA0_en (ID 161376)	18.09.2018
Unnumbered	-	DA Datasheet 6ES75121DK010AB0_en (ID 161373)	18.09.2018
Unnumbered	-	DA Datasheet 6ES79548LC020AA0_en (ID 161370)	18.09.2018
Unnumbered	-	DA Datasheet 720871 TEMPERATURE SENSOR G« 316 (ID 158037)	18.09.2018
Unnumbered	-	DA Datasheet 720871 TEMPERATURE SENSOR G« 316 (ID 158047)	18.09.2018
Unnumbered	-	DA Datasheet 720914 Level switch (ID 161412)	18.09.2018
Unnumbered	-	DA Datasheet Sensor port 720873 (ID 158184)	18.09.2018
Unnumbered	-	DA Datasheet UV Sensor 720872 (ID 158182)	18.09.2018
Unnumbered	-	DC OMSM Actuator ITQ-RPC (ID 158384)	18.09.2018
Unnumbered	-	DC Operating Instruction Valve Butterfly Alfa Valve (ID 60615)	18.09.2018
Unnumbered	-	DC operating_instructions_hmi_comfort_panels_e-en-US (ID 158795)	18.09.2018
Unnumbered	-	DC Operating_instructions_Siemens_CPU_s71200 (ID 158839)	18.09.2018
Unnumbered	113	DC Users Instruction 720871 TEMPERATURE SENSOR G« 316 (ID 158049)	18.09.2018
Unnumbered	-	DC Users Instruction A27.01 UV Unit (ID 161358)	18.09.2018
Unnumbered	-	DC Users Instruction A27.1.01 UV-lamp assembly (ID 161342)	18.09.2018
Unnumbered	-	DC Users Instruction A27.1.02 Junction box (ID 161343)	18.09.2018
Unnumbered	-	DC Users Instruction A27.1.03 UV sensor (ID 161344)	18.09.2018
Unnumbered	-	DC Users Instruction A27.1.04 Water level sensor (ID 161345)	18.09.2018
Unnumbered	-	DC Users Instruction A27.1.05 Temperature sensor (ID 161346)	18.09.2018
Unnumbered	-	DC Users Instruction A27.02 Filter (ID 161347)	18.09.2018
Unnumbered	-	DC Users Instruction A27.2.01 Pressure sensor (ID 161348)	18.09.2018
Unnumbered	-	DC Users Instruction A27.03 Stripping Backflush pump (ID 161349)	18.09.2018
Unnumbered	-	DC Users Instruction A27.04 Main Panel (ID 161350)	18.09.2018
Unnumbered	-	DC Users Instruction A27.05 Frequency converter (ID 161351)	18.09.2018
Unnumbered	-	DC Users Instruction A27.06 External control box (ID 161352)	18.09.2018
Unnumbered	-	DC Users Instruction A27.07 Flowmeter (ID 161353)	18.09.2018
Unnumbered	-	DC Users Instruction A27.09 Ball valve (ID 161354)	18.09.2018
Unnumbered	-	DC Users Instruction A27.10 Sample pipe (ID 161355)	18.09.2018



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Document No.	Rev.	Title	Date
Unnumbered	-	DC Users Instruction A27.11 CIP unit (ID 161356)	18.09.2018
Unnumbered	-	DC Users Instruction A27.12 External HMI - Optional (ID 161357)	18.09.2018
Unnumbered	-	DC Users Instruction BFV Butterfly Valve (ID 161360)	18.09.2018
Unnumbered	-	DC Users Instruction BLV Ball Valve (ID 161361)	18.09.2018
Unnumbered	-	DC Users Instruction DESMI Pump Modular S (ID 158162)	18.09.2018
Unnumbered	-	DC Users Instruction Flow meter EH Promag 50W - BA046DEN_1209 (ID 152248)	18.09.2018
Unnumbered	-	DC Users Instruction Frequency Converter Marine (ID 156189)	18.09.2018
Unnumbered	-	DC Users Instruction OMSM Electrical actuator for BFV (ID 161362)	18.09.2018
Unnumbered	-	DC Users Instruction OMSM Electrical actuator for BLV (ID 161363)	18.09.2018
Unnumbered	-	DC Users Instruction PUMP MODULAR S (ID 158162)	18.09.2018

TEST REPORTS

Document No.	Rev.	Title	Date
117-36341-1	-	Marine type testing of DESMI CompactClean BWMS	20.08.2018
11821290	Final	Biological efficacy performance evaluation of CompactClean Ballast Water Management System in landbased test Lloyd's Register EMEA Land-based test report	21.09.2018
11821290	Final	Biological efficacy performance evaluation of CompactClean Ballast Water Management System in shipboard test Lloyd's Register EMEA Shipboard test report	21.09.2018

SYSTEM SUPPORTING REPORTS

Document No.	Rev.	Title	Date
1702-0040	2	UV Compact Clean - Scaling methodology evaluation Technical Investigation Department Lloyd's Register EMEA	02.06.2018
-	4	Shipboard Performance Report of DESMI Ocean Guard Ballast Water Management System onboard PROVIDANA	30.08.2018



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Document No.	Rev.	Title	Date
-	A.13	Component Overview CC-35 – CC-1500 NEX (ID 162240)	25.01.2019
-	0.5	Component Overview CC-2000 – CC-3000 NEX (ID 162650)	25.01.2019
BOM 441366	-	Bill Of Materials (ID162625)	25.01.2019
CPN1700108	-	G8 Type Approval Certificate	21.09.2018
Unnumbered	5	QB Risk Assessment CompactClean (ID 158173)	18.09.2018
BV DK008502	-	ISO 9001:2015 Certificate	23.10.2017

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

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