DNV-GL

CERTIFICATE FOR OFFSHORE SERVICE MODULE

DNV Standard 2.7-2: Offshore Service Modules (February 2016)

DNV GL Id No:

N1418WHS

Date of issue: **2018-01-08**

Particulars of Equipment	
Equipment Description:	Oil Change Unit
Identification Marking:	SWOC-UT-OC-01-9001
Equipment Owner:	Speedwind Offshore GmbH & Co. KG
Client Name for Certification:	Speedwind Offshore GmbH & Co. KG
Client Address for Certification:	Luisenstraße 5a, 26382 Wilhelmshaven, Germany
Module Type:	3 (non-pressurised)
Functional Group(s):	A (Diesel Engine)

The design is approved under DVR/Type Approval No: **DVR-P5994-J-10147** Revision: **0** on **2017-10-03** Other applicable DVR's or Amendments: **NA**

Operational Parameters

Ship Use	Yes ⊠ No □		Floating Installation	Yes ⊠ No [
Inclination Limitation	Yes ⊠ No □		Fixed Installation	Yes ⊠ No □		
Hydrocarbon Installation Use	Yes □ No ⊠		Important Service Use	Yes □ No ⊠		
Maximum Gross Weight	16,500kg kg Accelerations		Accelerations	0.35g (horiz.) ±0.3g (vert.)		
Sea Pressure Load	15kPa Other Service Loads (Full Limit)			2.5kPa Wind		
Sea fastening shall be attached as detailed in drawing(s)	Via certified twist locks on ISO corner castings.					
Main Supply Voltage Range	24	V dc	Essential Supply Voltage Range		V ac dc 3ph 1ph	
Main Supply Frequency	n/a	Hz	Essential Supply Frequency		Hz	
Main Supply Current Protection (max)	See comments	А	Ess. Supply Current Protection (max)		Α	
Intended Hazardous Area Location	Non hazardous		Operational Temperature Range	-20 to +45	°C	
Gas Group	n/a		Temperature Class	n/a		
Manned use:	Yes □ No ⊠		Maximum Occupancy	n/a		

Please refer to appendix for any additional limitations

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This is to certify:

that the module has been designed, examined and tested in compliance with **DNV Standard 2.7-2: Offshore Service Modules DNVGL-ST-E272 February 2016** The certificate includes an appendix which is to be considered as a part of the certificate.

The above listed module has been found to be in accordance with the Codes and Standards referenced above as qualified by the limitations identified in this certificate.

Other Standard(s) covered under this certificate: N/A

This certificate remains valid for the life of the module providing it is not modified (Reference to section 8.7.1 of the Standard).

Issued at Hamburg on 2018-01-08



for DNV GL

This document has been digitally signed and will therefore not have handwritten signatures

Bender, Holger Surveyor

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APPENDIX TO CERTIFICATE FOR OFFSHORE SERVICE MODULE

DNV Standard 2.7-2: Offshore Service Modules (February 2016)

Additional Operational Limitations

230Vac 50Hz 16A secondary supply is for shore connection (yard power supply) only.

Comments

- 1. Fire protection of module has been assessed against a rating of continuous steel.
- 2. Modules have been assessed for single layer use against the defined structural cases. Stacking of the modules is not covered by this certificate.
- 3. Central section of unit is designed to capture leaks in event of rupture of lube oil transfer/storage tanks. These tanks (due to potential volume of store fluid) could be considered as bulk cargo under MARPOL Annex I and maybe subject to case specific assessment for each mobilisation in accordance with the requirements of the vessel class society and/or flag state.
- 4. Module is to be shipped with less than 5 litres of diesel fuel as the diesel fuel tank is not manufactured in accordance with IMDG requirements.
- 5. Suitability of components/equipment for electromagnetic compatibility (Section 4.2 DNVGL-ST-E272) have been confirmed for safety systems only.
- 6. Modules have been assessed for use on non-hydrocarbon related installations. This excludes the module from operating on vessels that can work in the vicinity of an offshore production facility or that conduct work above live wells.
- 7. An Inclination Limitation of 10 degrees has been taken into account.

Specific Installation / Hook-up Requirements

Offshore interface aspects of the module shall include provision for:

- Communication devices for deck crew.
- Hook-up of main power supply and suitably sized protection should the oil transfer unit be powered from the host installation/vessel.
 - Suitable procedural control to prevent hook up of 230Vac supply when on board ship.

Pre-Certified Components

Description	Certifying Company	Cert. No	Remarks

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