DNV·GL

Statement of Compliance

This is to confirm that the undernoted product has been tested in accordance with the relevant requirements of MEPC.259(68) in respect of washwater monitoring.

HACH Company

Company Hach Company
Loveland, Colorado
U.S.A.

Product Description Exhaust Gas Cleaning System Washwater Monitoring

Type Hach Washwater Monitoring System for Exhaust Gas Cleaning Systems

Range of Application: The Hach Washwater Monitoring System is intended for installation on-board vessels operating an exhaust gas cleaning system (EGCS) and is found to be in compliance with the requirements of Resolution MEPC.259(68) – "2015 Guidelines for exhaust gas cleaning" adopted on 15. May 2015, Chapter 10 "Washwater"

The Hach Washwater Monitoring System meets the following requirements:

-	Principle of detection for $PAH_{PHE\ Eq}$	(MEPC.259(68), 10.1.3.3)
-	Turbidity influences on $PAH_{PHE\ Eq}$	(MEPC.259(68), 10.2.3)
-	Principle of detection for pH	(MEPC.259(68), 10.2.2)
-	Resolution for pH	(MEPC.259(68), 10.2.2)
-	Temperature compensation for pH	(MEPC.259(68), 10.2.2)
-	Principle of detection for Turbidity	(MEPC.259(68), 10.2.5)

Documents: Test report:

"MEPC.259(68) Test Report for MEPC.259(68) Marine Type Approval"
Hach Company, Version 1.2, dated 2018/11/05,

Dr. Mirko Schlegelmilch

Claus Kurok

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Technical Data

Hach Washwater Monitoring System			
Component	Model	Sensor type	Range
Controller with	SC1000	SC1000 Sensor Module with Display Module	4 digital ports
PAH_{HC}	FP 360 sc	Fluorescence	0 –500 µg/L
			0 –5000 µg/L
Turbidity	UltraTurb Seawater SC	Scattered IR light	0 – 1000 FNU
pH + Temperature	pHD: DPD1P1 or DPD2P1	Digital Differential pH Sensor	2.5 – 12 -5 – 70°C
	LZY027 or LZY027.1	Combination Electrode pH Probe and Gateway	2 – 13 0 – 100°C

This is to Note

1. Hach Washwater Monitoring System shall be installed, calibrated and operated in accordance with the requirements and intervals as specified in the respective user manuals.

2. Air bubbles in the washwater flow at the place of $PAH_{PHE\ Eq}$ measurement should be avoided.

3. Because of turbidity correction by a calculation equation, the "FP360 sc" has demonstrated to operate correctly and not deviate more than 5% in washwater with turbidity within the working range.

4. In case sensors are mounted in a bypass of the discharge water system, the manufacturer shall take measures to ensure continuous flow within the bypass.

Dr. Mirko Schlegelmilch

Claus Kurok