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 reports:

"MEPC.259(68) Test Report for MEPC.259(68) Marine Type Approval"
Hach Company, Version 1.0 - September 30th, 2019

"MEPC Test Report, MEPC.259(68) Marine Type Approval; Hach Washwater Monitoring System - EGCS"
Hach Company, December 4th, 2020

Digitally Signed By: Kock, Fabian
Location: DNV GL SE, Hamburg, Germany
Signing Date: 2021-02-09

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Technical Data

Hach Washwater Monitoring System			
Component	Model	Sensor type	Range
Controller	SC1000	SC1000 Probe Module with Display Module; 4 or 6 Digital Sensors; 4-20mA Outputs; Profibus/Modbus 485 (optional)	See Sensor Ranges
PAH_{PHE}	PAH500 (Probe & Gateway)	Fluorescence	0 –900 µg/L
Turbidity	ULTRATURB sc seawater	Scattered IR light	0 – 1000 FNU
pH + Temperature	pHD: DPD1P1 or DPD2P1	Digital Differential pH Sensor	2.5 – 12 -5 – 70°C
	Probes: LZY027 or LZY027.1 Gateway: 6120600	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 "PAH500" 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.

Remark The compliance with relevant requirements of the DNV GL rules for classification – Ships, offshore units, and high speed and light craft has been type approved by DNV GL, Certificate No: TAA000021W, Revision No: 3.

Digitally Signed By: Kock, Fabian

Location: DNV GL SE, Hamburg, Germany

Signing Date: 2021-02-09