

To: Customers

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Nov 2021

Fuji Electric Co., Ltd

Fuji Electric Exhaust Gas Cleaning System (EGCS)

Foreign matter clogging in the EGCS scrubber cleaning nozzle

We would like to express our deepest appreciation to you for your continued support for our ship exhaust gas cleaning systems (EGCS).

We have received the report from vessel that pumice-like foreign substance is clogged in the strainer and scrubber cleaning nozzle at the entrance of the scrubber water supply pump, and the amount of scrubber water supply drops and an alarm is issued.

Therefore, if a similar event occurs, we recommend that you follow the procedure below.

1. Case

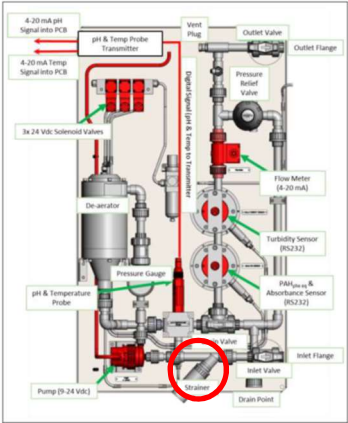
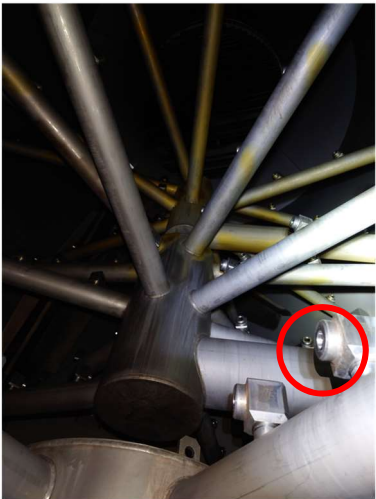
- An alarm was issued to reduce the flow rate of scrubber water supply, and when the crews checked the flow rate of the water supply pump, it dropped to about 100 m³/h.
- As a result of switching the water supply pump to a spare and checking the strainer at the pump inlet, a large amount of pumice-like foreign matter was confirmed.
- As a result of checking the cleaning nozzle inside the scrubber, it was confirmed that it was clogged with the same foreign matter.
- As a result of cleaning the clogged nozzle with an air blow, EGCS is restored to normal.

2. Check point

Please follow the steps below when the scrubber water flow rate drop alarm is issued.

- (1) Check the flow rate for both the water supply flow rate (EGCS control panel / local side (display of flow meter FM-1)).
- (2) Check the discharge pressure of the pump with a pressure gauge equipped with a water supply pump.
- (3) Switch the water supply pump to a spare machine, open the strainer that is normally used, and check for foreign matter and damage.
- (4) If the strainer is opened and foreign matter is found, check the EGCS water supply system shown below.

Table 1: EGCS water supply system inspection points and details

Inspection Point	Details
(1) Water quality meter / water supply side	<p>Open the strainer inside the water quality meter panel to check for foreign matter.</p> <p>If a large amount of foreign matter is found, check the inside of the water quality meter inlet pipe.</p> <p>Cleaning is also recommended.</p> 
(2) Cleaning nozzle	<p>Open the scrubber manhole and visually check the cleaning nozzle for clogging.</p> <p>If you find any clogging, please contact us.</p> 

For inquiries regarding this service letter, please contact each sales representative or the following:

Vessel and Transportation Systems Dept.

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