

Market Update Note



22 December 2018

Water handling system

MAN Energy Solutions has decided to update the water handling system (WHS) for EGR engines according to the new IMO guidelines on the discharge of EGR bleed-off water. The guidelines, adopted by IMO resolution MEPC.307 (73), apply to EGR engines for which the EIAPP Certificate is first issued on or after 1 June 2019.

The updated WHS will be available in two different configurations: one for low-sulphur fuel (LS WHS) and one for high-sulphur fuel (HS WHS).

LS WHS

The LS WHS will be applicable to EGR systems designed for fuels of max 0.5% sulphur.

The main differences between the new LS WHS compared to the previous system are:

- cleaning of water for the EGR process is not required
- the LS WHS is simplified, only handling the bleed-off water from the EGR
- MAN Energy Solutions will not require approval of the LS WHS
- certificates for type approval of oil content meters will be required on board, including operating and maintenance manuals
- buffer tank is specified by MAN Energy Solutions and can be delivered by any maker: licensee, yard or external supplier.

Fig. 1 shows a layout diagram of the LS WHS.

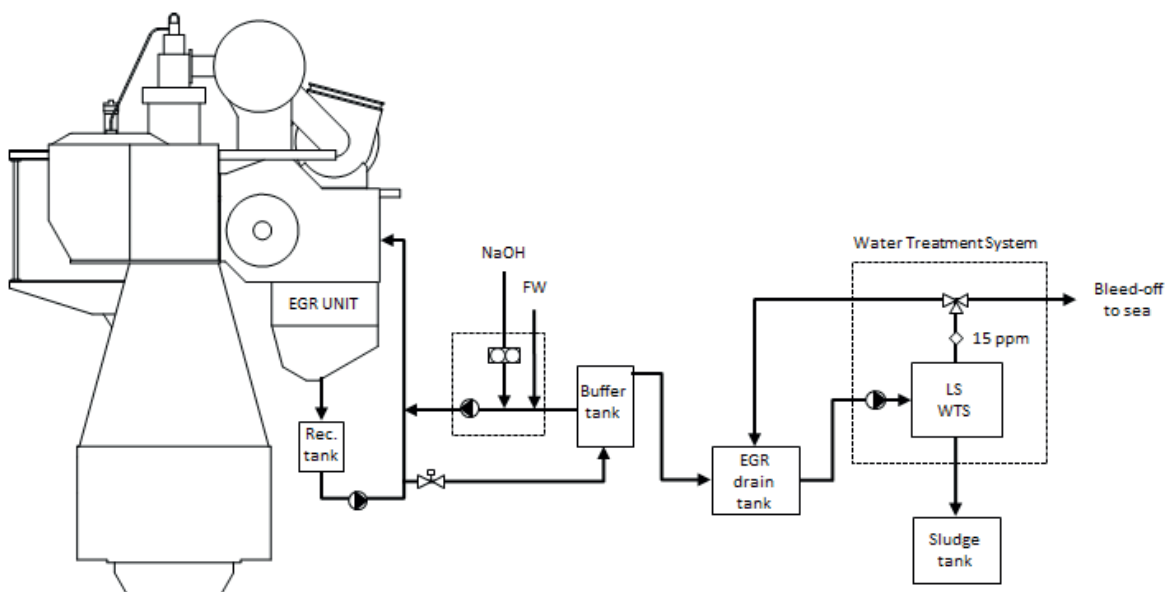


Fig. 1: Low-sulphur water handling system (LS WHS)

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HS WHS

The high-sulphur water treatment system (HS WHS) will be applicable to EGR systems designed for high-sulphur fuels, i.e. fuels that do not comply with the fuel sulphur limits and, therefore, requires installation of a SO_x scrubber on board.

The main differences between the new HS WHS compared to the previous system are:

- lower amount of water being circulated to the buffer tank and returned to the engine
- HS WTS is simplified, operating only to maintain the water quality in the EGR circuit
- bleed-off water from the EGR process, which is sent to the EGR drain tank, can be discharged by the exhaust gas cleaning system (EGCS)
- buffer tank is specified by MAN Energy Solutions and can be delivered by any maker: licensee, yard or external supplier.

Fig. 2 shows a layout diagram of the HS WHS.

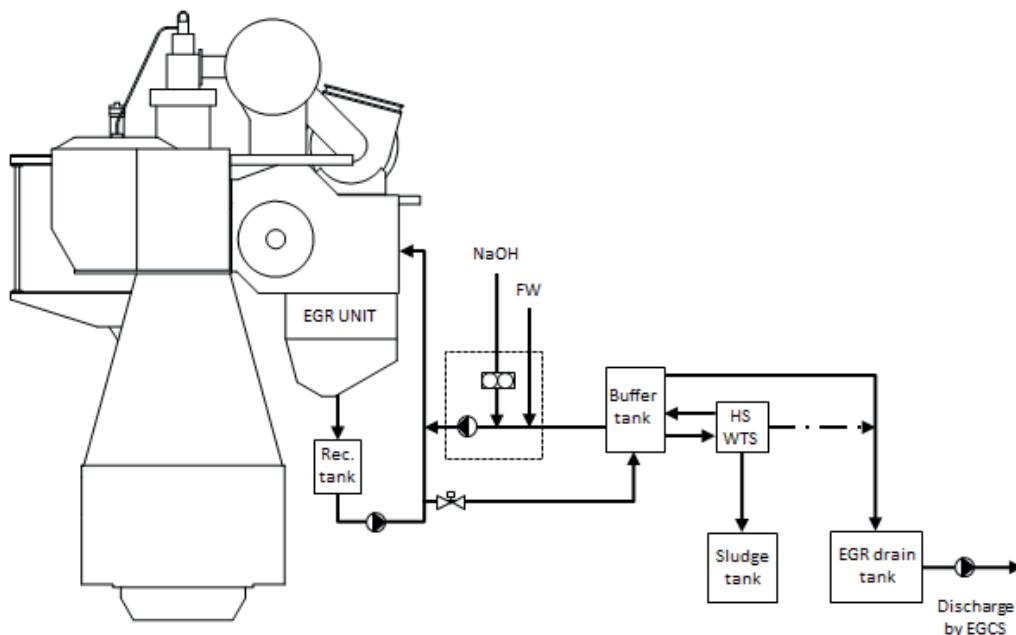


Fig. 2: High-sulphur water handling system (HS WHS)

Further information on EGR WHS can be found in our “Emission Project Guide”, which is available on our web site: marine.man-es.com/two-stroke/project-guides.

EGR

Based on IMO’s new guidelines for the discharge of EGR bleed-off water, a simplified EGR water handling system can now be offered on both low-sulphur and high-sulphur EGR engines.

Questions regarding this Market Update Note should be directed to our Marine Installation department, EEEEE4, at LEE4@man-es.com.

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