

# TECHNICAL CIRCULAR

DOC No.: HHI-TEC-0440

Date : FEB 25, 2022

**SUBJECT: HAZID/HAZOP LICENSOR PARTICIPATION**

**TYPE: ALL ENGINES**

**DISTRIBUTION**

<input checked="" type="checkbox"/> Ship yard	<input checked="" type="checkbox"/> Ship owner
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In order to meet the recent rapidly changing market's demands, vessel using various fuel types is being developed. In order to recognize a variety of risks that may occur in the vessel, HAZID & HAZOP workshop is often undergoing based on the vessel's contract agreement.

In this regard, even though the risk assessment of engine itself is already completed between the Licensor and Class, we as engine manufacturer often have been requested to attend this workshop which is targeting the ship's system. As an engine builder, we are responding through the attendance of the engine licensor due to limitations of the evaluations of fundamental design.

We issue this document to share the each engine licensor's constraint in advance for eliminating the debate that may occur after the engine contract. Please refer to the following conditions.

In case of MAN-ES's engine,

- Workshop to be held as a Teams or Skype meeting in English language
- Maximum duration for MAN-ES's participation is 4 hours per day for two days, alternatively 7 hours for one day, both within normal working hours in Denmark
- In case of out of the above condition, extra will be charged. And also, in case of the meeting has to be a physical meeting, travelling and living expenses will be invoiced as well

In case of Win-GD's engine,

- The local WinGD engineer in Korea is basically attended
- Workshop to be held as video call
- Maximum duration for WinGD's participation is 2 hours
- In case of new (first) engine type, WinGD will support for a normal working day free of charge, provided that the meeting will take place on Korean grown
- In case of out of the above condition, extra will be charged. And also, in case of the meeting has to be a physical meeting, travelling and living expenses will be invoiced as well

In general, the questions related to main engine are very limited. For this reason, we recommend to replace with a written answer after meeting, not attending. Nevertheless, if customer request for our attendance, we recommend to adjust the meeting time based on the above each licensor's constraint. In relation to the extra, it will be charged for the situation in the event of a situation.

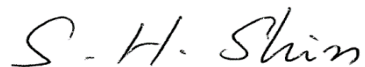
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We hope the information will do you a valuable service.

[The end]

Yours sincerely,



S. H. SHIN / Senior Engineer

Head of Marine Engine & Machinery Technical Sales Dep't