

Form of Written Discussion at the 26th ITTC Conference

Discusser:	
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Name of Technical Committee or Group to be discussed	Propulsion
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Written Discussion (within 1,000 words of length):

Thank you for your very interesting presentation and fine work. Regarding pod propulsion procedure, there are many reasons why we hardly to obtain full scale data. Because pod system include many parts, such as pod strut, pod body and propellers and it is not easy to know for each part's performance, not only model tests but also full scale case. The most difficult thing is the correct power. Due to the electric power system, it is not so easy to measure the delivered power directly. Therefore, we have to extend our community to other area such as electric makers, engine makers to solve this problem. Thank you.

Answer:

The Committee agrees that it is frustrating to have the current pod guideline not be able to achieve procedure status due to the lack of validation data. Measuring the full scale delivered horsepower on the shaft between the pod motor and propeller will be challenging due to the space limitations and the measured data are often not able to be shared in the open domain. Obtaining reference information from the manufacturers of the pod's component parts is a good potential source of data, but questions may still be raised regarding whether the compiled component data matches the at-sea performance to validate the guideline.