

*SUpport to SAfety ANalysis of Hydrogen and Fuel Cell Technologies*

<b>Verification type</b>	Numerical Solution
<b>Database reference</b>	NUM-5
<b>Topic / Application</b>	Numerical solution verification Ship Hydrodynamics
<b>Physics</b>	Drag estimation
<b>Summary</b>	Verification via comparison of 13 numerical solutions of ship hydrodynamics
<b>Description</b>	<p>The paper presents a verification process via comparison of 13 numerical solutions of ship hydrodynamics . . Of primary interest to H2 safety practitioners are the metrics that are used for comparison between these codes.</p> <p>The comparison of 13 simulations included different codes, turbulence models and organisations.</p> <p>The paper also presents an interesting discussion on numerical error versus numerical accuracy estimates.</p>
<b>Case Title</b>	Quantitative V&V of CFD simulations and certification of CFD codes
<b>Authors</b>	Fred Stern, Robert Wilson and Jun Shao
<b>Year</b>	2005
<b>Online reference</b>	INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS Int. J. Numer. Meth. Fluids 2006; 50:1335–1355
<b>Case image</b>	
<b>Governing equations</b>	
<b>Results</b>	