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**License Agreement**  
for the  
**CFD Test Case**

***Centrifugal Compressor “Radiver” with MTU Impeller***  
***of Aachen University***

The test data of this test case was generated by Dr.-Ing. Kai U. Ziegler within his doctorate project under the scientific supervision of Prof. Dr.-Ing. Dr. h.c. H.E. Gallus (until 08/1998) and Prof. Dr.-Ing. R. Niehuis (09/1998 – 02/2006) at the Institute of Jet Propulsion and Turbomachinery (IST) of RWTH Aachen, Germany.

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The test case "Radiver" is open to everyone, who wants to use the data base for CFD validation. The provision of this test case is intended to be a contribution to the field of research on "impeller-diffuser interaction" and "unsteady CFD in centrifugal compressors" in order to advance progress in these fields. The provider of the test case highly appreciates to share results, experience and other useful information among the group of users and encourages all users to participate in that sense. Joint publications are welcome.

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- to cite in every publication (or in any other form of communication) the source and origin of his information, i.e. naming the authors and the institute. If the test case is used in any form of publication, the relevant publications below must be cited. Furthermore, the origin of the data base must be mentioned as follows: “The measurements on the test case "Radiver" were carried out at the Institute of Jet Propulsion and Turbomachinery at RWTH Aachen, Germany. Part of the investigations was funded by the Deutsche Forschungsgemeinschaft (DFG).“
- to give feedback to the institute of Jet Propulsion and Turbomachinery at RWTH Aachen about what he did with the provided information. Participation to the potential workshops and inclusion of these results in the data base are solicited and welcome.

**Relevant publications of the test case:**

- [1] Ziegler, K.U., Gallus, H.E., Niehuis, R.  
A Study on Impeller-Diffuser Interaction: Part I - Influence on the Performance  
ASME Paper GT-2002-30381, 2002
  
- [2] Ziegler, K.U., Gallus, H.E., Niehuis, R.  
A Study on Impeller-Diffuser Interaction: Part II - Detailed Flow Analysis  
ASME Paper GT-2002-30382, 2002
  
- [3] Ziegler, K.U.  
Experimentelle Untersuchung der Laufrad-Diffusor-Interaktion in einem Radal-  
verdichter variabler Geometrie  
Doctoral Thesis RWTH Aachen (in German), 2003

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