

Completion and adoption of the
IAPWS Guideline on the Fast Calculation of Steam and Water
Properties with the Spline-Based Table Look-Up Method (SBTL)

Project of the IAPWS Task Group “CFD Steam Property Formulation”

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Completion and Adoption of the IAPWS Guideline

Progress:

- **Draft IAPWS Guideline has been adopted by the Working Groups IRS and TPWS at the IAPWS Annual Meeting 2015 in Stockholm, Sweden**
 - EC Minute 8.1: Guideline approved for Postal Ballot after editorial changes
- **Editorial changes have been made by 16th December 2015**
- **Guideline was circulated to the Heads of National Committees of IAPWS on 17th December 2015 for Postal Ballot**
- **No negative votes were responded – **Guideline became official by 31st March 2016****
- ***IAPWS Guideline on the Fast Calculation of Steam and Water Properties with the Spline-Based Table Look-Up Method (SBTL)* is now available at www.iapws.org .**

Application of the SBTL Method

SBTL is currently applied in:

- **TRACE**, CFD code by German Aerospace Center (DLR)
- **KRAWAL & DYNAPLANT**, power plant design and analyses software by SIEMENS
- **EBSILON**, heat-cycle simulation software by STEAG
- **RELAP-7**, nuclear-reactor system safety analysis code developed by the Idaho National Laboratory (INL)

Planned projects:

- **BISON**, nuclear fuels performance code by the Idaho National Laboratory (INL)
- **ATHLET**, thermal - hydraulic computer code developed by the Gesellschaft für Anlagen - und Reaktorsicherheit (GRS)
- **ANSYS FLUENT & CFX**, CFD codes

SBTL Guideline is applied in a growing number of process simulation software tools.

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➤ DRAFT document is ready for submission:

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Look-Up Method (SBTL)***

Thank you for your attention.