



**Applied Flow Technology**  
*Dynamic solutions for a fluid world.™*

## Nuclear Verification & Validation

Do you have a need to use *AFT Fathom™* in a safety related application?

Performing a Commercial Grade Dedication for software is a complex and time consuming task....

In cooperation with Applied Flow Technology, Archon Engineering has developed a Nuclear Verification and Validation package (V&V) to support the use of *AFT Fathom* software in safety related applications in the nuclear industry.

The V&V package assists with the performance of a Commercial Grade Dedication process on *AFT Fathom* and its Goal Seek and Control (GSC) and Extended Time Simulation (XTS) modules.

The V&V report will assure the accuracy of:

- *Fathom's* database file for:
  - ⇒ Steam and water properties
  - ⇒ Pipe sizes
  - ⇒ Pipe roughness
  - ⇒ Fitting loss data
- Flow and pressure calculations, using *Fathom's* pipe and junction features
- Heat transfer calculations from user supplied thermo-physical data
- And more

**Pricing** - The Nuclear Verification & Validation package is sold by Archon Engineering, P.C. For pricing information please visit [www.archonengineering.com/nuclear-v-v/](http://www.archonengineering.com/nuclear-v-v/)

**Quality Assurance** - The Nuclear V&V package was developed under Archon's 10CFR50 Appendix B, and ASME NQA-1, 1994 quality assurance program allowing Archon to provide this package via a nuclear safety related purchase order to nuclear clients.

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Package details can be found at :  
<http://www.aft.com/services/nuclear-verification-and-validation> .